# COMMENT

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# Personal experience with AI-generated peer reviews: a case study



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# Abstract

**Background** While some recent studies have looked at large language model (LLM) use in peer review at the corpus level, to date there have been few examinations of instances of Al-generated reviews in their social context. The goal of this first-person account is to present my experience of receiving two anonymous peer review reports that I believe were produced using generative AI, as well as lessons learned from that experience.

**Methods** This is a case report on the timeline of the incident, and my and the journal's actions following it. Supporting evidence includes text patterns in the reports, online AI detection tools and ChatGPT simulations; recommendations are offered for others who may find themselves in a similar situation. The primary research limitation of this article is that it is based on one individual's personal experience.

**Results** After alleging the use of generative AI in December 2023, two months of back-and-forth ensued between myself and the journal, leading to my withdrawal of the submission. The journal denied any ethical breach, without taking an explicit position on the allegations of LLM use. Based on this experience, I recommend that authors engage in dialogue with journals on AI use in peer review prior to article submission; where undisclosed AI use is suspected, authors should proactively amass evidence, request an investigation protocol, escalate the matter as needed, involve independent bodies where possible, and share their experience with fellow researchers.

**Conclusions** Journals need to promptly adopt transparent policies on LLM use in peer review, in particular requiring disclosure. Open peer review where identities of all stakeholders are declared might safeguard against LLM misuse, but accountability in the AI era is needed from all parties.

Keywords Peer review, Generative AI, ChatGPT, Large language models, LLMs, Academic misconduct

# Introduction

The need for the scholarly community to address the use of generative AI in peer review has become increasingly evident ever since the widespread availability of large language models (LLMs) such as ChatGPT. In the fastgrowing body of publications addressing this topic, consensus has emerged that, with certain LLM use in peer review going forward, explicit guidelines and controls are urgently needed to ensure legitimacy of the review

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process [1–8]. As the quality of LLM output has rapidly improved [1, 3, 7], and as people increasingly rely on these tools [9], it will only become harder to accurately distinguish human from AI text, making it all the more plausible for reviewers to pass off LLM output as human assessment.

A stream of recommendations has been forthcoming from some journals and international publishing organizations, though such guidelines appear to be "scattered" [10, 11] and, notably, disciplinarily uneven, with more from the natural sciences than the humanities or social sciences. The Committee on Publication Ethics (COPE) and the European Association of Science Editors (EASE) state that any AI use in peer review should be declared

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to all relevant stakeholders [3, 12, 13]. The International Association of Scientific, Technical & Medical Publishers (STM) recommends that reviewers should "never" use generative AI in drafting review reports, discouraging even its basic proofreading functions [14]. Due to the intellectual property concerns, guidelines have distinguished between generative AI use by authors themselves and by external reviewers [13-16]. For instance, guidelines from the Journal of the American Medical Association (JAMA) and The Lancet indicate that reviewers are prohibited from inputting author work into language models as this would violate confidentiality; reviewers and authors alike must declare how any LLM was used; in the case of The Lancet, authors themselves must even specify the individual prompts used and for which portions of the manuscript [15, 16].

Some research has addressed the question of LLM use in peer review by looking at population-level text patterns in large corpora [17, 18]. One qualitative study interviewed peer reviewers in various disciplines who have openly, routinely used LLMs to assess human work, though without discussing how or whether they disclose this practice to journals [19]. Missing to date has been the close examination of real peer review reports that could plausibly have been produced using generative AI. Assuming (as we must) that some researchers definitely are using AI to assist with peer review, at various levels of the process [5, 17, 19-23], then discussion is necessary about the actual LLM use in its social context. Due to the convincingly humanlike appearance of much LLM output, and the hybrid human-machine nature of all prompted (and post-edited) AI-generated text, it is very difficult to determine what is human and what is machine for any given text where LLM use is not disclosed. Therefore, clearsighted human interpretation is required to assess the potential use of AI in peer review, as in all scholarship.

The objective of this case report is to describe my own experience of receiving what I believe were two AI-generated peer reviews during the submission of my work to language conference proceedings, outlining some of my actions and considerations following that event.

## Background

I submitted a historical linguistics article for consideration to a special issue of *mediAzioni* journal (vol. 43, Oct. 2024; affiliated with the University of Bologna) as part of the proceedings for the Taboo Conference (TaCo) held in Rome in September 2022 [24]. Following its submission in June 2023, the guest editors informed me by email in mid-December 2023 that the paper was "suitable for publication, although significant changes should be made" [25].

Upon reading the two anonymous reports attached, I immediately suspected AI had been used to produce them, based on the following reasons: While the reviews were rather extensive (Reviewer 1 text: 915 words; Reviewer 2 text: 857 words), I felt the points raised were extremely vague, unspecific, formulaic and repetitive [26]. All recommendations involved the formal composition of my article; there was no meaningful engagement with my arguments. The reports were written omnisciently in the third person and were near perfect in terms of English orthographic and syntactic norms. In addition to my own qualitative close readings of the reports, supporting evidence to back up my claims included the use of online AI detectors and comparison to simulations run in ChatGPT; while AI detectors are notoriously unreliable [17, 27-31], when properly controlled they may offer relative indications - not irrefutable proof - that must be contextualized alongside other elements suggestive of AI use, such as the simulations (see Additional file 1: Appendices A and B for further details and discussion). Another way to test the AI basis would have been to compare the anonymous reviewers' reports with sample reviews they had written prior to the public release of LLMs.

As a practical matter, I felt that the review recommendations were so unspecific as to be unusable in the work of revising my research paper. Since some portions of the review reports were, to me, obviously AI generated, the entirety of the reviews had been tainted: there was no way for me to determine which points were human and which were machine. As a matter of principle, I felt that, if an LLM had been used, the review process had been delegitimized, for multiple reasons. Legally, if portions of my paper were ingested into a commercial LLM platform, as I believe, this treatment would raise concerns about the confidentiality of intellectual property, as has been widely acknowledged [1, 3, 5-7]. Far more seriously, in epistemic terms LLM use would raise questions about the source of intellectual authority, assuming a supposed "objectivity" of AI language models and running counter to the fundamental situatedness of human knowledge production. Large language models like Chat-GPT are not thinking or reasoning platforms; they are text pattern repeaters [32, 33] which, by extracting their artificial knowledge from nodes of "statistical density" [34], quite literally code normativities into their output. Consequently, they risk reproducing dominant ideologies and biases inherent in their training data [1, 3–6, 9, 32, 33], which poses problems for scholarly inclusivity and innovation. An act perhaps meant in the aim of "saving time" has the epistemic effect of assuming the existence of some disembodied higher intellectual authority, conveniently accessible online via commercial AI platform the ultimate view from nowhere.

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Review	Reviewer commentary	My annotations
Review 1	However, while the text is generally well-structured, there are some areas where further elaboration and contextualisation could enhance the clarity of the author's argument.	Which exact specific areas in the text – please cite them line by line?
Review 1	Consequently, the examples provided seem detached from the original historical dimension, making them challenging to interpret.	Please explain point by point where the problems are in my argument.
Review 1	However, the authors [ <i>sic</i> ] should consider breaking down com- plex concepts into simpler language where possible, especially when introducing them. In particular, this is evident when using specialised terminology.	I have no idea what this refers to, without specific examples. Which terms in particular?
Review 2	The author's line of reasoning occasionally proves challenging to track.	What specific arguments are hard to track?
Review 2	The progression of introduced topics lacks linearity and can be abrupt at times.	Where exactly in the piece?
Review 2	However, the author is encouraged to revise specific sections by pro- viding more comprehensive information on certain concepts.	Which specific sections? What more information is to be provided?

## Timeline of actions and journal response

As the TaCo conference took place in September 2022, prior to the public release of ChatGPT (in November 2022), no journal policies regarding AI use were communicated to authors at the time of article commissioning or subsequent submission, in June 2023.

Within twenty-four hours of receiving the reviews, I informed the editors of my suspicions by email, providing a list of specific questions and line-by-line annotations to be presented to the reviewers (which might be seen as exemplifying the call in [35] for authors to be "ready to challenge reviewer comments that are seemingly unrelated"). Table 1 provides some examples of the review text [26], along with my annotations sent to the guest editors on 20 December 2023.

In my initial response, I urged the guest editors to confront the reviewers and to inform the editorial and scientific boards. A day later, on 21 December 2023, I escalated the matter to the editors in chief, to make sure my allegations and requests were known to the journal hierarchy. Thus began a two-month period during which the journal denied any ethical breach and I repeatedly followed up to seek further information on the purported investigation, ultimately withdrawing my paper and appealing by email to all scientific board members. Since both review reports revealed LLM-generated text patterns, I wondered whether higher-level coordination had occurred and felt other submitting authors should be made aware of the situation. Thus I informed all participants of the TaCo conference about the matter by email; no one confided to me any doubts about their own reports.

Table 2 provides a chronological list of my actions taken with respect to the journal and selected outside parties.

The official, final response of 22 February 2024 provided no details about the journal's investigation into my allegations and it denied my request for de-anonymization [36]. It included voluntary responses from each of the two human reviewers. Both reviewers stated that English was not their first language. Composed in highly proficient English (predicted human by online AI detectors; see Additional file 1: Appendix A) and written in the first person, these texts demonstrated to me that they were written by the individuals who presumably used ChatGPT to review my article through a process of individualized AI prompting and post-editing. In their detailed responses, the reviewers stood by the recommendations in the reports without explicitly refuting my claims.

Most notable in the journal response was that the editors likewise took no explicit position on the question of whether generative AI had been used to produce both review reports. They stated: "our journal is not the proper place to conduct a dispute on this issue" [36].

## Discussion

The integrity of the peer review process was of primary concern, more decisive in motivating my actions than the individual critiques themselves. I went public with my allegations in the equal aims of establishing accountability and of raising public awareness; rather than being exceptional, surely my case is indicative of what is playing out throughout the academic world. One year on, the situation is all the more serious due to the rapid advances in technology which have made LLM output seem sophisticatedly humanlike, yet still presenting the same fundamental political, epistemic and heuristic problems for knowledge production.

#### Date Journal actions My actions Interactions with outside parties 19 Dec. 2023 Peer reviews sent with provisional acceptance for publication. Response to guest editors Blog post about AI use in peer alleging generative AI had been review, without naming the 20 Dec. 2023 used. iournal. Indication and Email to editors in chief by guest mediAzioni editors that an requesting official journal 21 Dec. 2023 investigation would be conducted. investigation and response. + Joint indication by guest and 11 Jan. 2024 mediAzioni editors that they found my allegations unsubstantiated. Email to editors to withdraw my paper, with detailed questions 15 Jan. 2024 about the investigation. ¥ Email to all scientific and Email informing all conference 31 Jan. 2024 editorial board members participants of the matter. Blog requesting a formal response. post publishing the review reports. 31 Jan. -Sporadic contact with journalists 5 Apr. 2024 in several countries. Initial contact with Mario Malički Email reminder to all journal parties, specifying a requested of Research Integrity and Peer 2 Feb. 2024 reply date of 5 Feb. Review. Email to COPE seeking advice. 3 Feb. 2024 Email to all journal parties Blog update publishing ChatGPT ChatGPT updating with 7 Feb. 2024 simulations and reiterating my simulations. requests. Email to Università di Bologna administrative offices requesting 8 Feb. 2024 intervention. COPE: Response from no assistance possible as the journal 20 Feb. 2024 was not a member. Official journal response by email from editors with replies from the 22 Feb. 2024 anonymous reviewers. Blog update publishing the journal's email response and new 26 Feb. 2024 controlled AI detection tests.

## Table 2 Timeline of my communications with the journal and some outside parties

In retrospect, there were several things I would have done differently. First of all, I would have requested to receive, within seventy-two hours, a detailed protocol laying out the proposed steps of the investigation. Had one not been provided, or had I found a proposed protocol lacking, that would have been the point at which I escalated the matter to the full scientific board - within days, rather than six weeks. Having an official investigative protocol also would have demonstrated to me the concrete actions I needed to take myself. For instance, I initially relied on the journal to employ digital forensic scrutiny, such as running ChatGPT simulations or comparing the reports to earlier writing samples from the reviewers. This seemed to me the appropriate way to proceed, as I had no access to the reviewers themselves. It was only belatedly that I realized I would have to run such tests myself.

As part of an investigative protocol, I would have asked the journal to specify what, if any, associated external oversight bodies I might have recourse to if needed. As it was, despite relying on its recommendations [36, 37], *mediAzioni* is not a member of COPE and I therefore could not appeal to its jurisdiction [38, 39]. Due to the potentially conflicting political interests between an author (an outside entity) and peer reviewers (who a journal and its scientific board may have an interest in protecting), it is crucial for independent bodies to be able to assess cases such as mine [13]. I remain unaware of any such oversight body, in Italy or elsewhere, that could have intervened.

Lastly, as a linguist who focuses on textual discourse and its underlying ideologies, I believe the text patterns in the peer review reports themselves – and LLMs generally – merit critical examination (see Additional file 1: Appendix B). Amid boosterism and hype about the power of generative AI including in peer review [19, 40-42], candid critique of actual LLM output is needed. Fuller linguistic descriptions of typical LLM output will help to better assess potential use of AI in peer review and scholarship. While several widely cited studies have provided minimal details on known generative AI text patterns, it is not enough to merely analyze them "at scale" or at the "population level" [17, 18], because this removes individual instances from their social context and elides human agency.

## Recommendations

Following are several recommendations for authors and editors who may find themselves in a similar situation. By urging sustained, proactive engagement by all parties throughout the review process, these guidelines align with the spirit of those recently issued by EASE [13].

## For authors

Check publication policies and lead the conversation in advance.	As the primary interested parties, authors should take the lead in advance by check- ing journal or conference policies. Authors concerned about LLM use in peer review should address the topic with editors before- hand, when policies are not clearly stated online or in submissions materials. If allowed by editors, consider adding a disclaimer to submitted work indicating that it may not be ingested into LLMs or analyzed by AI during the process, as a way to put reviewers on notice about the author's position.
In the case of suspicion, amass evidence right away.	Clues to AI review generation may include generic, formulaic, verbose, repetitive text, written omnisciently from the third person and flawlessly in terms of ortho- graphic norms, and focusing on form at the expense of argumentation. With rapidly improving models, this will surely change, though. In the case of suspicion of LLM use, do not rely on the journal to take the lead in substantiating the claim. Run simulations in various LLMs, using the peer review prompts with your paper, to see if responses correspond. Compare the language used to published stud- ies describing AI text patterns. If you run the reviews through online AI detectors, proceed with caution (next point).
Do not rely solely on online Al detectors.	For online AI detectors to have validity, they must be controlled against known human and LLM output; only detec- tors capable of consistently predicting the latter two should be retained. Various detectors ought to be used, to compare among them (see Additional file 1: Appen- dix A). However, due to their poor reputa- tion [17, 27–31], these tools easily become a distraction, enabling parties to deny their relevance based on the claim that they "don't work" and foreclosing debate on the real issue of how to substantiate suspected LLM use.
Immediately relay concerns to editors and demand an investigation protocol.	After amassing evidence, inform the editors at once. If the submission is for a guest- edited special issue, also include the edi- tors in chief. Concretely, request a detailed protocol – including a timeframe – laying out all steps so that the terms of a poten- tial investigation are transparent. Journal responses should be timely and forthright. Also insist on the role of the individual human reviewers, supplying a list of ques- tions for them to reply to; in the best-case scenario, their response might provide a control sample against which to compare the disputed reviews. The journal's response at this stage will set the tone for future com- munications; if the response is contentious or defensive, it may make sense to withdraw your paper so as to avoid further conflicts of interest, still while pursuing accountabil- ity for potential misconduct.

If the journal response is lack- ing, escalate the matter.	If, within a span of days, the investigation proto- col is not provided or if it is insufficient, escalate the matter to the full scientific board. Where appropriate, depending on the journal or confer- ence, recourse to outside bodies could serve as an independent backup (such as COPE, ICMJE, EASE, STM, etc.). If higher-level LLM coordination seems plausible in the case of special issues or conference proceedings, inform all other participation to the output they are proved	Where disputes arise, put authors and reviewers into contact without delay.	As a matter of fairness, and in acknowledg- ment that peer review ought to be a dialogue among equals rather than a top-down imposition of power, if an author disputes an anonymous review, they should promptly be put into contact with the reviewers. This may not change the facts of the matter, but it could potentially defuse a tense situation by balancing the power differential.
Activate institutional resources, if you have access to them.	The role of institutional clout should not be underestimated. For affiliated researchers, access to university lawyers, a press relations depart- ment or even just colleagues willing to take a stand can help balance the power differential between an individual author alleging material harm and a publisher or the unnamed reviewers on the other end of it. In contrast to plagiarism, LLM abuse is currently too new and too difficult to prove in a court of law, meaning that softer forms of power may take precedence here.	Allow flexibility on the lan- guage of review reports.	Now that Al has enabled instantaneous and competent translation across many languages, the status of English as the default language of science can, in political terms, no longer credibly go unques- tioned. To improve sociolinguistic equity while also potentially reducing recourse to LLM use, in any language, for editing tasks that might later cast doubt about the authen- ticity of peer reviews, reviewers could be encouraged to respond in whatever language they feel most comfortable in,
Go public.	If you are in a position to reasonably do so, share your experience. Due to the unprecedented risks LLMs pose to research integrity, the scholarly community deserves to be considered stake- holders in the matter. Through firsthand accounts we should be able to move beyond mere evoca- tions of the "plausibility" or "likelihood" of AI use in peer review and to assert, as humans, that this is actually happening – and to hold accountable the individuals responsible for it.	Remember that authors are the primary stakeholders.	so long as translation resources are available as needed to editors and authors. Scholarly publishing involves balancing many competing interests, but authors – not reviewers, editors or readers – are always the primary stakeholders where peer review is concerned. Even if some parties are in favor of automation, many authors will not consent to any Al assessment, especially if it occurs under the guise of "blind" review. Acknowl- edging this fact may help prevent incidents
For editors and publishe	rs		such as the one I have described here.
Require disclosure of LLM use in peer review and transpar- ently state policies on it.	At a minimum, requiring disclosure of any LLM use seems indispensable to maintaining review integrity, as many commentators have already		

# Conclusion

This incident has convinced me that signed, non-anonymous evaluation is the surest and most responsible way to safeguard against AI misconduct in peer review, especially in the humanities and social sciences: in the absence of practicable controls amid the swiftly evolving technology, asking reviewers to openly stand by their work can counterbalance, though not eliminate, the risks of LLM use in peer review. Yet there is no universal solution across disciplines and research communities. In some fields, innovations involving more agile, interactive but still anonymous review might offer different safeguards against LLM abuse [8, 46].

Much of the discussion to date (as cited here) has focused singularly on peer review in the hard sciences. I hope my case will serve as a reminder that peer review is being impacted by generative AI in all disciplines. The interdisciplinary call to action proposed in [47] aims at restoring trust in peer review precisely by acknowledging its human imperfections. In that spirit, perhaps part of the solution is to candidly acknowledge, too, that the flaws in an inherently social pursuit [1, 4, 44, 47] are not fixed by outsourcing fundamentally human decisions to the machines, which reproduce human error and bias in opaque ways.

Adopt open peer review.

a sufficient solution. Even if some good-faith reviewers will dutifully disclose, it is certain that some actors will not. In light of this, open peer review [43] where author and reviewer identities are declared would ensure transparency and accountability for scholarly assessment in the AI era. This is not to naively suppose that LLM use will disappear once reviewers sign their names to their evaluations, but to require that individual human beings take responsibility for their work, including for any machine output found therein. There are questions to address involving the complexity of academic power dynamics in open review [44, 45], but, on principle, safeguarding against AI misuse is surely by now the strongest argument in favor of de-anonymization.

pointed out [1, 3, 5, 8, 15, 16]. The multifunc-

tionality of LLMs - generating, translating,

editing, "enhancing" - means that reviewers

who use them to generate portions of reviews can then claim the deniability of having used

Al only to edit or translate their original human

doubt over the legitimacy of the entire review process. For this reason, clear guidance is needed

in peer review and what is not - multiply benefi-

cial, in that journals state their policies, reviewers know what is expected from them, and authors

may choose to submit only to journals whose

Disclosure of LLM use, while necessary, is hardly

values align with their own.

work. Even minimal LLM use may thus cast

from journals on what AI use is acceptable

Realistically, automation of some reviewing tasks via AI is a certainty going forward – but research integrity need not suffer in the name of quick fixes. To adopt an optimistic view, the AI revolution could be a catalyst for radically rethinking what, in its most entrenched forms, has ostensibly become a broken and inequitable system of knowledge gatekeeping.

### Abbreviations

- COPE Committee on Publication Ethics
- EASE European Association of Science Editors
- ICMJE International Committee of Medical Journal Editors
- JAMA Journal of the American Medical Association
- LLM Large language model
- STM International Association of Scientific, Technical & Medical Publishers TaCo Taboo Conference

## **Supplementary Information**

The online version contains supplementary material available at https://doi. org/10.1186/s41073-025-00161-3.

Additional file 1: Appendix A. Al detection tests. Appendix B.  $\mbox{ChatGPT}$  simulations

## Authors' information

Nicholas Lo Vecchio is an independent linguist based in France and specializing in the historical queer lexicon.

### Acknowledgements

I wish to thank Mario Malički for his encouragement on this contribution.

#### Author contributions

The sole author is responsible for all content.

#### Funding

Not applicable

## Data availability

The materials discussed in this commentary are accessible at the author's website, www.nicospage.eu/publications/ai-peer-review. Private communications not published there may be shared with select parties for transparency purposes.

## Declarations

Ethics approval and consent to participate Not applicable

#### **Consent for publication**

Not applicable

#### **Competing interests**

The author declares to have no competing interests.

Received: 10 February 2025 Accepted: 14 March 2025 Published online: 07 April 2025

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