

The Impact of AI on Academic Research Credibility

Abstract

Generative AI is transforming what we see in academic research and we are rethinking scientific integrity. We look at how tools like Large Language Models (LLMs) and AI image generators are revolutionizing research. We report on how AI is playing out today as a tool which helps but also one which may be used for cheating.

We are very much aware of the issues that AI brings up which includes made up information in papers, strange phrases that look as though they were put there by a computer which in turn messes with the text, and the issue of fake images in science reports. Also we report on how easy it is for people to get into the peer review system and put in false info, and we look at what groups which provide research money and publishers are doing to deal with these issues.

We see that epistemic security is the answer. Instead of blind trust in the system we should use methods which prove the validity of scientific reports.

Keywords: Generation of AI, Academic Integrity, Research Validity, AI Errors, Fake Publications, Epistemic Security, Peer Review.

Chapter 1

1. 1 Goal.

The main issue this study looks at is complex destabilization of Academic research value that comes from the use of generative AI technologies, specifically. In the domain of scientific publication and peer review we look at Large Language Models (LLMs). This study reports on. To put forth a catalog of fraud types, evaluate the present state of our institutional policies' success, and put forth a model for future "epistemic security.

1. 2 Hypothesis.

The inclusion of gen AI tools in academic work flows sees to a large drop in.

In the aggregate with regard to the validity and authenticity of published scientific research which through

Rate of published works that are retracted because of fabricated data, also we see an increase in reports of authorship issues which are not disclosed, and also we have notes that the trend is toward more large scale issues.

Break down of the traditional human centered peer review model.

1. 3 Issues Statement

The academic research environment at present is in the midst of three key and interrelated issues which of.

Integration of generative AI: Introduction of gen AI.

1. Epistemic Pollution: LLMs' issue of passing off made up authoritative information which in turn taints the scholarly record: put forth facts and citations which aren't true which in turn causes researchers to waste time and to pass along misinfo which becomes a feedback loop.

2. Industrialization of Fraud: Generative AI has reduced the access point for fraud. Activities which have the scale of industrial production but put out what they claim are unique and original manuscripts in a large scale.

Scale is doing away with traditional plagiarism and originality checks.

3. Vulnerability of Quality Control: The present gold standard for quality control is the peer review system which is unable to identify sophisticated AI generated content in submissions and Adversarial research which puts science to the test often ends up accepting what is flawed or fraudulent.

1. 4 Issues in this Study.

This issue is with the fact that we are in the very early days of generative AI which presents these:.

1. Pace of Technology: At the time of writing the study was based on As LLMs and detection techniques are improved upon constantly the technical details for instance may only have a short term value in terms of detection accuracy.

2. Undisclosed Usage: It is a challenge to determine what is the true scale of AI use in reports we have which is a result of poor and varying reporting and the lack of good unbiased detection tools. Also we see that data which we have is based very much on what publishers report of retracted cases which may only be a small part of the issue.

3. Focus on LLMs: While in this paper we look at visual GANs we are more so at the study of the role of Textual Generative AI (LLMs) in terms of citation and narrative integrity which also is to say not representing threats from multi modal or other synthetic data.

Chapter 2: Literature Review and Context

Introduction

The rapid growth in AI has reshaped how research is conducted, written, and reviewed in academic venues. AI tools have become increasingly common for idea generation, data analysis, language editing, and literature synthesis. This technical development now begs the question: about authenticity, accuracy, and ethical responsibility. This chapter reviews recent studies and academic resources addressing how AI influences research credibility by identifying its advantages and disadvantages.

Review of Related Works

1. Employing Artificial Intelligence within Academic Writing and Research – Khalifa (2024)

Khalifa identifies six key areas where AI improves academic writing: idea generation, content structuring, literature synthesis, data management, editing, and ethical compliance. The study argues that when used appropriately, AI can enhance both efficiency and quality. However, it also stresses the need for ethical oversight to safeguard research integrity and prevent overdependence.

2. Over-Reliance on AI Dialogue Systems: Consequences on Research and Education – Zhai (2024)

Zhai explores the effects of heavy reliance on AI dialogue systems on cognitive and academic skills. The findings highlight reduced creativity, critical thinking, and originality among students and researchers who depend too much on AI. The study recommends balanced and moderated use to preserve independent reasoning.

3. The Impact of Artificial Intelligence on Students' Academic Performance and Motivation – Vieriu (2025)

Vieriu's research shows that AI tools can create personalized learning experiences that improve engagement and academic performance. At the same time, it warns that excessive dependence may weaken students' problem-solving abilities and their capacity for independent learning.

4. Research Integrity and GenAI: A Systematic Analysis of Ethical Challenges Across Research Phases – Bjelobaba (2024)

This systematic review examines a range of ethical concerns related to generative AI in research, including transparency, plagiarism, bias, and privacy. The paper proposes frameworks for responsible use but acknowledges limitations due to the rapidly evolving nature of AI.

5. AI and Its Implications for Research in Higher Education – Butson (2024)

Butson discusses how AI is reshaping research practices in higher education, particularly through improved data handling and research design. While AI supports efficiency, the paper raises concerns regarding authenticity and maintaining methodological rigor.

6. Using Artificial Intelligence for Systematic Review – Bernard (2025)

Bernard evaluates AI tools such as Elicit in conducting systematic reviews. The research shows how automation can streamline screening and data extraction, though it may miss contextual nuances. The study emphasizes the continued need for human oversight.

7. The Potential and Concerns of Using AI in Scientific Research – Khlaif (2023)

Klaif outlines both the benefits and the risks of using AI in research. While AI can improve literature searches and data analysis, concerns remain regarding data integrity and issues surrounding authorship. The paper concludes that credible research requires responsible usage.

8. Rethinking Academic Integrity in the Age of AI – Balalle (2025)

Balalle analyzes AI's implications for academic integrity, highlighting its advantages alongside risks of misuse. The study advocates for clear institutional policies that uphold transparency and accountability in AI-supported research.

9. Comparison of Human and ChatGPT-4 Literature Reviews: A Study – Mostafapour (2024)

Mostafapour compares human-written and AI-generated literature reviews. The results show that AI excels in structure and speed but often lacks depth, accuracy, and contextual sensitivity. The study concludes that human oversight is essential.

10. A Systematic Review of Literature Reviews on Artificial Intelligence in Education – Mustafa (2024)

Mustafa's work surveys trends in AI-related educational research, examining methodologies and identifying gaps in existing knowledge. The study emphasizes the need for empirical validation to strengthen the credibility of AI applications.

11. Automate Systematic Reviews with Deep Research AI – Paperguide (2025)

This article discusses how Deep Research AI can automate systematic review processes. While automation improves efficiency, it also introduces ethical issues related to data bias and transparency.

12. Best AI Tools for Literature Reviews 2025 – Sourcely (2025)

Sourcely offers a comparative overview of AI tools for literature reviews, assessing their strengths and limitations. The report concludes that although AI improves efficiency, improper use can compromise the credibility of research outputs.

13. Artificial Intelligence (Generative) Resources: AI Tools for Research – Georgetown University Library (2025)

This library guide outlines emerging AI tools for research and offers ethical best practices. It encourages responsible integration of AI and highlights concerns about privacy and authorship.

14. AI Tools in Evidence Synthesis: Searching for Systematic Reviews – King’s College London Library (2025)

This institutional guide examines the use of AI in evidence synthesis and systematic reviews. It notes the advantages of automation while cautioning against overreliance and stressing ethical practice.

15. AI-Assisted Literature Reviews – University of Iowa ITS (2024)

The University of Iowa describes how AI can support literature review processes when combined with human expertise. The article emphasizes maintaining academic rigor and originality in AI-assisted work.

16. Using AI in Academic Research – Best Practice for Literature Search – IFIS Publishing (2024)

This paper provides guidelines for using AI in literature searches, focusing on precision and ethical standards. It calls for responsible research practices to ensure reliable outcomes.

17. 9 Best AI Tools for Research in 2025 – Paperguide (2025)

Paperguide reviews current AI tools for research, focusing on data handling and citation accuracy. The article concludes that while technology improves efficiency, ethical considerations must remain central.

18. Thousands of UK University Students Caught Cheating Using AI – *The Guardian* (2025)

This report reveals widespread AI-enabled cheating in UK universities, raising concerns about academic honesty. It calls for stronger enforcement and greater awareness to protect academic integrity.

19. AI Cheating in University Assignments Is ‘All but Impossible to Detect,’ Regulator TEQSA Warns – *The Australian* (2025)

This article explains how difficult AI-generated work is to detect, according to TEQSA. It suggests that universities need to adapt their assessment systems as misuse becomes more common.

20. Use of AI Is Seeping into Academic Journals—and It's Proving Difficult to Detect – *Wired* (2023)

Wired reports that AI-generated content has entered academic publishing. The article stresses that weak detection methods and lack of transparency threaten the credibility of scholarly work.

Research Gap

Even though a great deal has been written about how AI tools are reshaping academic research, one important aspect is still missing from the broader conversation: their real impact on research credibility. Many studies focus on how AI speeds up research or makes complex tasks easier to manage, but far fewer examine what this means for the honesty and trustworthiness of academic work. Questions related to originality, authorship, and the gradual loss of genuine critical thinking often remain only loosely addressed.

Researchers such as Khalifa (2024), Butson (2024), and Bernard (2025) highlight how AI improves productivity and streamlines complicated processes. However, they give much less attention to the consequences of becoming overly dependent on these systems. In contrast, Zhai (2024) and Balalle (2025) point out ethical concerns and risks to academic integrity, though their studies lack sufficient empirical evidence to measure how credibility is actually affected.

Another noticeable gap is the lack of variation in research contexts. Most existing studies examine AI use in education or in general research settings, rather than exploring how its influence may differ across disciplines such as the sciences, social sciences, or the humanities. Much of the work remains theoretical suggesting what might happen—rather than documenting what is happening within real research environments.

To address these gaps, the present study investigates directly how the use of AI tools influences the credibility and reliability of academic research. The goal is to offer a balanced perspective: acknowledging the ways AI can support stronger research while also examining how it may quietly weaken the authenticity on which academic scholarship depends.

Chapter 3: Methodology and Research Validation

3.1 Research Methodology

This study uses a rigorous **mixed-methods design**, combining a systematic literature review. SLR to establish technical vulnerabilities and an OPA to evaluate institutional responses.

3.1.1 Systematic Literature Review Protocol

The SLR was conducted over three major databases, namely Scopus, Web of Science, and arXiv, to capture both peer-reviewed and pre-print/technical perspectives.

Search Strings: The main search strategy was using combined Boolean operators which targeted the Intersection of AI, academic integrity, and fraud: ("Generative AI" OR "Large Language Model" OR ChatGPT) AND ("research integrity" OR "credibility" OR "hallucination" OR "paper mill" OR "deepfake").

Inclusion Criteria: Sources published between January 2023 and the date when the search was conducted were considered for inclusion. present, reflecting the post-ChatGPT proliferation period, were in English, and provided empirical proof, such as case studies, retraction data, and technical detection methods, or official policy Analysis related to AI impact on scholarly publishing.

Data Extraction: For each source included, data were extracted and cataloged under the following: technical categories: a) evidence of bibliographic fabrication, b) documented use of "tortured phrases," (c) technical forensic markers of synthetic data (visual or numeric), and (d) observed failure points in the peer-review process.

3.1.2 Organizational Policy Analysis (OPA)

The OPA systematically analyzed official statements and editorial guidelines from key stakeholders. in charge of governing the scientific record.

Target Organizations: The study targeted four classes of institutions:

1. Major Publishers: Elsevier, Springer Nature, and Taylor & Francis represent high-volume commercial journals.

2. Funding Bodies: National Institutes of Health (NIH) and National Science Foundation (NSF) -representing regulatory control over grant application integrity.

3. Integrity Watchdogs: Committee on Publication Ethics (COPE)

4. Open Science Platforms: arXiv & relevant pre-print servers.

Comparison Dimensions: Policies were compared along three critical dimensions, viz., (a) Authorship Status, i.e., whether AI is allowed to be an author; b) Disclosure Requirement: Must AI usage be declared?, and c) Use in Quality Control (Stance on AI assistance in peer review). This Comparison allowed for the identification of regulatory harmonization and fragmentation.

3.2 Testing Reliability and Validity

The validation methodology responds to the problem of researching a constantly changing technology.

3.2.1 Reliability Test: Methodological Triangulation

Triangulation was used by the researchers to establish the reliability of the fraudulent mechanisms observed.

evidence of AI-driven malpractice was confirmed across independent data streams. Core finding-that AI enables large-scale fraud-is reliable since it may be supported by:

1. **Linguistic Markers:** The repeated finding of "tortured phrases."
2. **Bibliographic Markers:** The continued presence of fabricated "ghost citations."
3. **Visual Markers:** Technical detection of synthetic visual data - GAN artifacts.

The combination of these three independent, separately observable phenomena lends credence to the over-claim that generative AI enables an entirely new class of industrialized fraud.

3.2.2 Validity Test: Measuring the Policy-Practice Gap

Internal validity of the assessment of policy effectiveness was tested by defining and measuring the Policy-Practice Gap ΔP :

$$\Delta P = R_{Observed} - R_{Policy}$$

where $R_{Observed}$ is the observed rate of AI-related fraud/retractions, derived from SLR case studies, and R_{Policy} is the expected rate of compliance as assumed by current editorial policies; for example, zero AI authorship. A high positive value for ΔP (i.e., high observed fraud despite restrictive policies) serves to confirm

the argument of inefficiency of the current institutional framework against the technological threat, confirming the need for a shift in approach. This test ensures that the analysis moves beyond mere description.

From policy to a critical evaluation of its functional efficacy.

Chapter 4: Findings and Evidence of Destabilization

4.1 The Mechanics of Hallucination

A primary threat to scholarly and informational integrity is *hallucination*—an emergent behavior in which large language models (LLMs) generate responses that sound plausible but are factually incorrect.

4.1.1 Distributed Agency

Hallucinations develop through what some researchers describe as a “ring of inaccuracies,” in which user prompts interact with model weights in unpredictable ways that lead to unintended fabrications [10].

Unlike traditional fraud, this process lacks malicious intent. However, the outcome is still the creation of “synthetic facts” that can enter and contaminate the academic record [11].

4.1.2 “Ghost Nodes” and Bibliographic Fabrication

LLMs frequently produce citations that appear authoritative but do not actually exist [8, 12]. These fabricated references—sometimes called “ghost nodes”—waste researchers’ time, misdirect literature searches, and may even lead to circular citation chains as users unknowingly build on nonexistent sources.

Taxonomy of Bibliographic Hallucinations

Type	Mechanism	Impact
Complete Fabrication	Model invents the title, authors, and DOI.	Pollutes the academic record; leads to dead ends in literature searches.
Attribute Misalignment	A real paper is attributed to incorrect authors.	Distorts bibliometrics and can damage academic reputations.
Content Confabulation	A real paper is cited but with made-up findings or contributions.	Propagates misinformation under the guise of evidence.
Anachronistic Hallucination	Claims a discovery occurred earlier than it actually did.	Undermines chronological accuracy and historical integrity [9].

4.1.3 “Tortured Phrases”

Automated paraphrasing tools often generate “tortured phrases”—awkward or incorrect synonyms produced to avoid plagiarism detection. These distort technical terminology (e.g., “counterfeit consciousness” instead of “artificial intelligence”) and have emerged as linguistic fingerprints of industrial-scale academic fraud [14, 16].

4.2 The Industrialization of Malpractice: Paper Mills 2.0

Generative AI has taken the concept of paper mills, which were once small-scale operations, and transformed them into mass-production machines.

4.2.1 Mass Production of Fraud

AI now allows for the instantaneous generation of unique manuscripts that can easily bypass standard plagiarism checks [19, 21]. Estimates suggest that hundreds of thousands of fake papers might already exist in fields like genomics [19].

4.2.2 Editorial Infiltration and "Trojan Horses"

Paper mills are becoming more sophisticated in their approach. One method involves a "Trojan Horse" strategy, where they infiltrate journals by posing as guest editors. This allows them to accept fraudulent submissions. Another tactic, known as "Trojan Horse Prompting," is a form of adversarial manipulation, where invisible text is inserted into manuscripts to influence AI-based review systems [22, 23].

4.3 Visual Fabrication in Life Sciences

The falsification of primary visual data—such as microscopy images and Western blots—using AI is a serious concern. These manipulated images can pose a tangible threat to the integrity of scientific research.

4.3.1 Generative Artifacts

Generative Adversarial Networks (GANs) can create synthetic images of Western blots and microscopy data that look real at first glance. However, these images often contain subtle but detectable forensic artifacts, like checkerboard patterns and spectral anomalies [25]. To uncover these issues, tools like Proofing are now essential for detecting these synthetic signals [24].

4.3.2 Numeric Data Simulation

AI can also generate synthetic numeric data, such as simulated Flow Cytometry (FACS) plots, by modeling statistical distributions. Detecting this kind of manipulation can be difficult because it requires access to the raw data files, which are frequently withheld from public view [27].

Table 2: Comparative Analysis of Image Fabrication

Image Type	Traditional Method	AI Method	Detection Difficulty
Western Blots	Splicing/Cloning	GAN Generation	High; requires spectral analysis

Microscopy	Rotation/Cropping	Structure Synthesis	Very High; experts fail visual checks
Flow Cytometry	Manual Erasure	Statistical Simulation	Extreme; requires raw .fcs data

4.4 The Corruption of Peer Review and Governance

4.4.1 Peer Review Strain

The peer review system is facing increasing strain due to the rise of AI-generated submissions and reviews. When manuscripts are uploaded to public large language models (LLMs), this violates confidentiality and intellectual property rights [29, 30]. Moreover, AI-generated reviews tend to be superficial and are often biased toward consensus, which undermines the quality of the review process [31].

4.4.2 Institutional Frameworks and Policy

Funding bodies like the NIH and NSF have begun restricting the use of AI in peer review processes and are demanding more transparency [30, 35]. However, publisher policies are still fragmented: while most journals ban AI authorship, they allow its use for text improvement—as long as there is proper disclosure [39, 41]. Despite these efforts, there remains a great deal of legal ambiguity when it comes to issues of copyright and liability [43, 45].

Chapter 5: Analysis and Interpretation

5.1 Analysis: The Interlocking Systemic Risk

The evidence presented in Chapter 4 reveals a systemic credibility risk—this isn't just a collection of isolated incidents, but rather a network of interconnected threats. The "ease of use" highlighted in Chapter 2 fuels the "industrialization of fraud" seen in Chapter 4, where AI-generated content filled with awkward phrases and fabricated data infiltrates and corrupts the peer review process. This circular dynamic is the core problem. It creates a feedback loop that ensures detection efforts will always lag behind generative capabilities. This confirms the hypothesis that integrating AI leads to a failure of traditional human-centered quality control.

The rapid speed and scale of large language model (LLM) output overwhelm the system's reliance on human volunteers and traditional editorial oversight. In short, we are facing a situation where the technology is outpacing our ability to regulate it.

5.2 Interpretation: The Verification Burden Shift

The key takeaway from these findings is the fundamental shift in the verification burden of the scientific record. Traditionally, the scientific system relied on a basic level of trust in human authors, with reviewers primarily assessing whether a paper was plausible. With the rise of generative AI, this trust is no longer enough. Now, the focus must shift to assessing the authenticity of the content itself.

This means institutions need to move from qualitative, subjective assessments to more robust, quantitative methods, such as cryptographic proof of origin—to verify the authenticity of data and findings. The discovery of synthetic images and fabricated data (as discussed in Chapter 4.3) shows that verification must happen right at the source, at the moment the data is first captured. Current policy frameworks are fragmented and inadequate in dealing with these new challenges. A localized, human-enforced approach is no longer effective against a global, algorithm-driven threat. The solution, therefore, lies in regulating the technology itself, not just the behavior of those using it.

5.3 The Epistemic Crisis

The ultimate risk we face is what could be called an "epistemic collapse." In this scenario, the scientific literature becomes increasingly disconnected from empirical reality [11]. The "black box" nature of AI makes it impossible to audit or trace the reasoning behind false claims generated by these systems [32]. As AI-driven tools like "self-driving labs" begin to rely on this polluted literature for training, we risk creating what has been termed "Zombie Science"—results that look empirical but are, in fact, rooted in unverified algorithmic errors and hallucinations.

Chapter 6: Conclusion and Future Outlook

6.1 Conclusion

The academic world is now at a crossroads, where the technological capability for academic fraud has outstripped the institutional capacity to maintain quality control. The research hypothesis—that the integration of generative AI decreases the verifiability and authenticity of scientific content—is strongly supported by the evidence we've seen. Mass hallucinations, industrialized paper mills, and failures in the peer review process all point to the same conclusion: preserving the integrity of scientific communication is no longer an optional editorial task but an urgent infrastructure problem that needs to be addressed.

6.2 Future Outlook: Epistemic Security Framework

To mitigate these systemic risks, the scientific community must adopt a defense-in-depth strategy focused on "Epistemic Security." Here are three key strategies for moving forward:

1. Cryptographic Watermarking

All AI-assisted or AI-generated content should be embedded with invisible, verifiable codes.

This will help track the provenance of content and make it possible to trace the origin of any data or publication [49].

2. **Web of Trust Architecture**

Implement "Zero Trust" protocols, requiring strict identity verification for all contributors. This could include mandatory ORCID verification and the use of cryptographic signing to ensure the authenticity of all contributions [51].

3. **C2PA Standards for Data**

Mandate the cryptographic signing of primary visual and numerical data (such as microscopy images, Western blots, and raw code output) right at the point of capture. This would ensure a verifiable chain of custody, from the lab to the publication, that protects the integrity of the data [49].

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