

Theoretical Article

Beyond Human Authorship: AI, Pedagogy, and Ethics in Academic Writing

Konstantinos T. Kotsis 1,* ¹ Department of Primary Education, University of Ioannina, Greece* Correspondence: kkotsis@uoi.gr<https://doi.org/10.59652/jcpas.v3i3.630>

Abstract: The integration of artificial intelligence (AI) in academic writing poses significant pedagogical and ethical dilemmas for higher education. This study consolidates international literature on the ramifications of AI tools – particularly generative models like ChatGPT, Claude, and Elicit – on academic literacy, writing pedagogy, and student assistance. The investigation examines how AI facilitates several phases of writing, from inspiration to editing, and its impact on student involvement, instructor responsibilities, and institutional standards. Although AI technologies have transformative prospects to democratize access to academic discourse and assist bilingual or neurodivergent learners, they also pose risks of aggravating epistemic inequality, undermining critical thinking, and obscuring authorship boundaries. The research underscores the necessity of critical AI literacy and inclusive pedagogies, informed by conceptual frameworks and empirical facts, to equip students for a swiftly evolving writing ecosystem. It finishes by promoting instructional and institutional solutions that integrate ethical reasoning, transparency, and cognitive development in AI-assisted academic writing.

Keywords: artificial intelligence (AI); academic writing; AI literacy; academic integrity; higher education; ethics in education

1. Introduction

The incorporation of Artificial Intelligence (AI) into academic writing signifies a significant shift in the production, communication, and evaluation of knowledge in higher education. Recent breakthroughs in natural language processing (NLP) and large language models (LLMs) like ChatGPT, DeepSeek, and Elicit have expanded AI's role from mere grammatical correction to active involvement in ideation, structuring, and synthesis (Brown et al., 2020; OpenAI et al., 2023). These advancements contest conventional views of writing as exclusively a human cognitive and communicative endeavor, prompting significant pedagogical and ethical inquiries for educators and institutions (Floridi, 2023; Cotton et al., 2023).

AI-driven writing tools have demonstrated potential in assisting students, especially those from multilingual, neurodiverse, or underprivileged backgrounds, by providing linguistic scaffolding, immediate feedback, and guidance in adhering to disciplinary traditions (Li et al., 2025; Bibi & Atta, 2024). In this setting, AI can act as a democratizing agent, facilitating wider access to intellectual discourse. Nonetheless, these technologies also have risks: they may diminish critical thinking abilities, obscure authorship distinctions, and perpetuate epistemic inequalities due to biases inherent in training data (van Dis et al., 2023; Williamson & Eynon, 2020). The educational value of AI relies not only on its capabilities but also on its contextualization within teaching methods and institutional structures.

Recent literature underscores a critical dichotomy between augmentation and automation – between employing AI to enhance learning and permitting it to replace essential cognitive functions (Zawacki-Richter et al., 2019; Floridi, 2023). As AI-generated content grows more articulate and rhetorically advanced, differentiating between original student work and machine-assisted outputs becomes progressively challenging. The erosion of borders prompts critical inquiries for educators: How can academic integrity be maintained in an AI-mediated context? What is the significance of writing and instructing in writing in an era where algorithms can generate complete texts?

Received: July 21, 2025

Accepted: September 19, 2025

Published: September 25, 2025

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This paper examines these challenges by concentrating on the educational and ethical aspects of AI in academic writing. This document examines international studies about the advantages and constraints of generative AI tools, the issues they present for authoring and evaluation, and the potential they provide for inclusive and reflective teaching practices. This promotes a critical AI literacy paradigm that empowers students and educators to traverse the changing world with ethical awareness, cognitive agency, and institutional clarity (Williamson & Eynon, 2020; Kotsis, 2025).

This research employs a conceptual and analytical framework to investigate the pedagogical and ethical aspects of utilizing AI in academic writing in higher education. Instead of providing empirical data, it integrates recent academic research and policy discussions to highlight main themes, difficulties, and emerging frameworks pertinent to educators, institutions, and learners. The objective is to provide a critical, theoretically informed examination of how AI technologies like ChatGPT are transforming academic writing processes, and to suggest pathways for pedagogical innovation and ethical involvement.

This document is a conceptual overview that consolidates global research on AI in academic writing. Instead of providing actual data, it incorporates theoretical viewpoints and policy discussions to analyze the educational benefits, ethical dilemmas, and institutional ramifications of generative AI in higher education. The article seeks to offer a theoretically informed contribution to teaching practice and policy development by contextualizing the issue within critical AI literacy.

2. Literature Review

The advent of generative AI technologies in higher education has catalyzed a substantial increase in study about their impact on academic writing processes. A significant portion of the literature highlights the dual potential of AI technologies, serving either as enablers of inclusive pedagogy or as threats to critical thinking and academic integrity (Floridi, 2023; Williamson & Eynon, 2020). Initially, educational technologies like spell checks and grammar assistants were perceived as neutral tools; however, the emergence of LLMs such as GPT-3 and GPT-4 has redefined AI as an active participant in the writing process (Brown et al., 2020; OpenAI et al., 2023).

A significant area of research examines the cognitive and linguistic capabilities of AI tools. Research underscores their efficacy in assisting learners with structural obstacles to academic writing, especially non-native speakers, neurodivergent individuals, or those unfamiliar with academic genres (Li et al., 2025; Bibi & Atta, 2024). For these students, AI technologies like Grammarly, Elicit, and ChatGPT can function as supports that improve access to academic discourse and alleviate writing-related anxiety (Wang et al., 2024). This democratizing role is particularly highlighted in multilingual educational environments, where students value AI's ability to enhance language clarity, structure, and feedback (Lee, 2024), while also promoting lifelong learning opportunities (Mhlanga, 2023).

Conversely, critical viewpoints express apprehensions over cognitive outsourcing and the diminishment of metacognitive involvement. Academics contend that students who depend on AI for idea generation or content creation may neglect critical phases of rhetorical reasoning, source assessment, and conceptual advancement (van Dis et al., 2023; Zawacki-Richter et al., 2019). There is significant apprehension regarding AI's capacity to produce coherent yet factually erroneous or biased material, a phenomenon referred to as "hallucination" (Bender et al., 2021). The absence of transparency in training datasets and the predominance of English-language academic discourse exacerbate these vulnerabilities, potentially perpetuating epistemic unfairness (Williamson et al., 2023).

Researchers have proposed new educational frameworks that incorporate critical AI literacy into writing instruction due to the pedagogical consequences of AI usage (Williamson & Eynon, 2020; Kotsis, 2025). Educators are encouraged to cultivate students' ability to critically analyze algorithmic outputs, comprehend the sociotechnical settings of their utilization, and participate in ethical decision-making about their use, rather than perceiving AI tools solely as aids (Floridi, 2023; Bibi & Atta, 2024). This transition necessitates that writing pedagogy evolve from mere technical proficiency to encompass reflexivity, transparency, and ethical reasoning.

Ultimately, research indicates that institutional reactions to AI differ significantly across various circumstances. Certain colleges take a prohibitive approach, categorizing AI-generated writing as academic misconduct (Cotton et al., 2023), whereas others promote its utilization with disclosure, especially during the initial phases of writing. Academic publishers

exhibit varying policies on authorship and credit expectations (COPE, 2023). This legal fragmentation exacerbates the ambiguity faced by students and teachers, underscoring the necessity for pedagogical clarity and institutional direction.

In conclusion, the literature indicates an increasing agreement that AI is not merely a tool to be utilized or prohibited, but a socio-technical entity that transforms writing as both a cognitive endeavor and a domain of ethical consideration. This requires a reevaluation of educational frameworks and academic criteria in higher education.

3. Conceptual background and Definitions

Comprehending the pedagogical and ethical ramifications of AI in academic writing necessitates a precise delineation of fundamental ideas. This section delineates the fundamental terminology and theoretical frameworks employed in the literature, concentrating on three interconnected constructs: AI, academic writing, and AI literacy.

AI is commonly characterized as the capacity of machines to execute tasks that ordinarily necessitate human intelligence, including thinking, learning, and problem-solving (Yadav et al., 2020). In academic writing, the word typically denotes NLP systems and LLMs that can produce coherent, human-like content. These encompass instruments such as OpenAI ChatGPT system, DeepSeek, Claude, and Elicit. These models are distinguished from prior rule-based systems by their ability to recognize patterns, engage in contextual reasoning, and apply transfer learning across several fields of knowledge (Brown et al., 2020; OpenAI et al., 2023).

Academic writing in higher education is a cognitive and cultural process that entails mastering genre conventions and cultivating disciplinary thinking and epistemic stance (Moran, 2011). It is frequently integrated into institutional standards for originality, citation, and critical argumentation. AI interventions in academic writing engage with these ideals, prompting inquiries on the definition of authorial agency and intellectual contribution when algorithms are involved in text creation (Kotsis, 2025; Floridi, 2023).

AI literacy encompasses the knowledge, abilities, and attitudes required to comprehend, utilize, and critically assess AI systems (Long & Magerko, 2020). In academic writing, it involves the capacity to identify the strengths and weaknesses of LLMs, recognize AI-generated work, and implement ethical decision-making in the utilization of these tools. Researchers assert that cultivating AI literacy in students and educators is crucial for promoting transparency, integrity, and cognitive engagement in AI-enhanced learning settings (Williamson & Eynon, 2020; Bibi & Atta, 2024).

Collectively, these categories establish the conceptual basis for examining the influence of AI on academic writing in higher education—not merely as a technological artifact, but as a socio-cultural force integrated into educational practice.

4. Pedagogical Affordances of AI in Writing Education

Generative AI technologies have various pedagogical advantages in higher education writing teaching, many of which correspond with modern notions of scaffolded learning, differentiated instruction, and inclusive pedagogy. When intelligently incorporated, AI can function as both a support system for basic writing abilities and a dialogic partner in enhancing reasoning, structure, and academic voice (Bibi & Atta, 2024; Lee, 2024). These advantages can be particularly advantageous for students from underrepresented or non-dominant academic backgrounds, including multilingual, neurodiverse, or first-generation university students (Li et al., 2025).

A prominent pedagogical advantage of AI writing tools is tailored scaffolding. ChatGPT and analogous platforms offer instantaneous feedback on grammar, style, and coherence, enabling students to modify iteratively without the necessity of continuous human oversight. This prompt reaction cultivates a low-risk atmosphere for experimentation and self-correction, consistent with Vygotskian theories of the zone of proximal development (Wang et al., 2024). For numerous students, AI serves as a substitute peer tutor, assisting them in assimilating academic traditions.

Furthermore, AI tools enhance metacognitive awareness and genre proficiency by providing organized writing models for several academic formats, including literature reviews, reflective essays, and lab reports. These tools allow students to deconstruct writing templates, thereby improving their understanding of rhetorical strategies and argument frameworks. Students occasionally utilize AI to juxtapose their drafts with AI-generated examples,

fostering critical self-evaluation and aiding in the refinement of their academic voice (Zawacki-Richter et al., 2019).

A significant advantage is the promotion of inclusive and differentiated instruction. AI solutions can alleviate the challenge of delivering personalized assistance in large classrooms by enabling students to independently seek clarification, paraphrase, or translations. This is especially pertinent in international educational contexts, where linguistic obstacles frequently impede comprehensive engagement in academic discussions (Lee, 2024; Williamson et al., 2023).

Recent classroom research has begun to envision AI not just as a mechanical assistant but as a co-creative agent. Certain instructors integrate AI into process writing pedagogy by prompting students to utilize ChatGPT for brainstorming, generating counterarguments, or critiquing drafts prior to submitting their final work (Cotton et al., 2023). These applications reconceptualize writing as a dialogic and exploratory endeavor, wherein the human learner remains pivotal, yet is enhanced by machine intelligence.

However, these affordances are not inherent. Their realization is contingent upon educators' pedagogical framework and students' critical interaction with AI outputs. In the absence of explicit guidance regarding the limitations and biases of LLMs, students may naively accept AI-generated writing or excessively depend on it for substantial content. Consequently, the successful integration of AI in writing education necessitates not just technology accessibility but also AI literacy, reflexivity, and facilitated discourse regarding its suitable application (Williamson & Eynon, 2020; Floridi, 2023).

5. Ethical Challenges and Dilemmas

Although AI tools provide various educational benefits, they also present significant ethical dilemmas related to authorship, academic integrity, data privacy, and epistemic justice. These challenges are not solely technical but are profoundly interconnected with enduring educational principles and institutional obligations (Floridi, 2023; Cotton et al., 2023). As AI-generated content becomes progressively indistinguishable from human writing, educators face challenging inquiries regarding the definition of original work and the methods for equitable assessment.

One of the most urgent ethical issues pertains to the ambiguous delineation of authorship and attribution. Conventional academic writing relies on personal accountability, originality, and the recognition of intellectual contributions. Nonetheless, when students utilize ChatGPT or analogous technologies to produce or enhance their writing, it becomes challenging to distinguish between assistance and co-authorship. Despite the absence of explicit policies on AI-generated content in numerous institutions, discussions are escalating around the necessity of citing AI and the appropriate methods for doing so (Kotsis, 2025; Formosa et al., 2025). These discussions prompt a broader inquiry into the readiness of academic institutions to reevaluate the concept of authorship in response to the growing involvement of AI.

Academic integrity is increasingly challenged in the era of AI. Utilizing AI for brainstorming or language improvement may be deemed permissible; but, depending on it to generate substantial academic arguments can amount to plagiarism, despite the content being original from an algorithmic perspective. This ambiguous domain hinders enforcement: conventional plagiarism detection tools frequently do not identify AI-generated material, which can evade regular filters (Cotton et al., 2023; Oravec, 2023). Consequently, certain researchers have suggested the creation of novel AI literacy frameworks to assist students and educators in ethically navigating these uncertainties (Williamson & Eynon, 2020).

In addition to authorship, data privacy and surveillance provide more ethical dilemmas. Most LLMs are trained on extensive datasets extracted from the internet, frequently without the authorization of authors or platforms. Students may inadvertently reveal proprietary or sensitive academic content to third-party servers when they submit such information into these sites. Moreover, certain AI systems retain user inputs to refine their models, prompting apprehensions over ownership, surveillance, and the commercialization of student labor (Piri, 2024). These hazards are more pronounced in areas where data privacy legislation is inadequate or not enforced.

Ultimately, ethical contemplation must encompass the epistemological ramifications of AI systems. AI-generated writings mirror tendencies in their training data, thereby perpetuating prevailing discourses while sidelining alternative viewpoints. This may exacerbate systemic imbalances in knowledge creation, particularly within global education

systems where Western epistemologies predominate (van Dis et al., 2023; Williamson et al., 2023). If AI serves as a gatekeeper of academic language, it may limit the diversity of voices and epistemologies present in scholarly debate.

The ethical application of AI in academic writing necessitates not only adherence to policies but also critical pedagogy, institutional responsibility, and student empowerment. Educators must establish environments that facilitate open discussions among students regarding the ethics of AI and encourage reflection on its implications for authorship, originality, and accountability in knowledge production.

6. Toward a Framework of Critical AI Literacy in Higher Education

The pedagogical and ethical challenges presented by AI in academic writing necessitate the establishment of a complete framework for Critical AI Literacy. This paradigm must transcend mere technical proficiency and promote critical awareness, ethical reasoning, and thoughtful engagement with AI tools. In this context, AI literacy encompasses not only the proficiency in utilizing digital platforms but also the development of students' and educators' abilities to critically examine, interpret, and assess AI's influence on knowledge production (Long & Magerko, 2020; Markauskaite & Goodyear, 2017).

This approach fundamentally necessitates the integration of critical digital pedagogy into academic writing teaching. This entails directly answering inquiries such as: What assumptions underline AI-generated content? Which voices are either amplified or marginalized in its training data? What is the significance of collaboratively creating knowledge with a non-human entity? Promoting such inquiry can assist students in transitioning from passive consumption to active examination of algorithmic systems (Williamson & Eynon, 2020; van Dis et al., 2023).

An essential AI literacy framework must advocate for the transparent and deliberate utilization of AI capabilities. Students require direction on the appropriate timing and methods for employing AI to enhance, rather than replace, their cognitive functions. For instance, educators may push students to record their engagements with AI (e.g., utilized prompts, modifications implemented, observations on precision), so promoting metacognition and a verifiable writing process (Oates & Johnson, 2025). This method corresponds with the educational transition towards process-focused writing and evaluation techniques.

Simultaneously, educators necessitate professional development to effectively incorporate AI into writing curriculum. This encompasses comprehending the affordances and constraints of LLMs, as well as familiarizing oneself with developing academic and institutional directives for responsible usage (OpenAI et al., 2023; Cotton et al., 2023). Educators must be equipped to exemplify ethical involvement, evaluate techno-solutionism, and navigate AI's influence on disciplinary standards.

Moreover, essential AI literacy necessitates a focus on infrastructure equality. Students do not uniformly access AI tools or possess equivalent cultural capital to utilize them effectively. Universities must address accessibility, linguistic diversity, and digital inequity in the development of AI-enhanced pedagogies (Zawacki-Richter et al., 2019; Williamson et al., 2023). An equitable framework must be comprehensive in both substance and implementation.

The primary objective of critical AI literacy in higher education is to enable learners to become proficient users of AI, as well as informed critics and responsible co-creators within AI-mediated academic environments. This viewpoint fosters enhanced involvement with the epistemological, ethical, and civic aspects of writing in the era of algorithmic authorship.

7. Conclusions

The integration of AI into academic writing in higher education signifies a pivotal shift – one that contests conventional teaching methods, redefines ethical limits, and necessitates novel literacy skills. This paper has illustrated that the capabilities of technologies such as ChatGPT and DeepSeek surpass mere productivity improvements. They present chances for scaffolding writing, facilitating language development, and customizing instruction. However, alongside these potential, substantial challenges emerge: uncertainty regarding authorship, risks to academic integrity, and issues related to equality and epistemic justice.

It is becoming evident that educational institutions can no longer regard AI as an external

entity or a mere supplement to current procedures. AI must be approached systematically, reflexively, and pedagogically. Integrating AI literacy into curricula, formulating explicit institutional regulations on appropriate use, and fostering critical awareness among students and educators are essential steps.

Future research must focus on numerous critical avenues. Initially, empirical research is required to gain a deeper insight of student interactions with AI writing tools – specifically, their purposes, evaluation of outputs, and the impact of these interactions on learning outcomes and cognitive engagement. Secondly, multidisciplinary investigation is essential for formulating ethical frameworks that are both technologically robust and culturally attuned and inclusive. This entails analyzing the global disparities inherent in training data, accessibility, and representation.

Third, as academic publishing entities commence the formalization of their policies on AI authorship, researchers must engage in the development of these standards. The inquiry encompasses not only the citation of AI but also the protection of human intellectual labor, the promotion of transparency, and the preservation of scholarly values within an evolving epistemic framework.

The objective is to transform the perception of AI in academic writing from a potential danger to academic integrity into a stimulus for critical thinking, innovation, and ethical consciousness. By adopting a pedagogically robust and ethically principled methodology, higher education may equip learners to not just write with AI but also to engage with and contemplate AI in revolutionary manners.

Funding: This research received no external funding.

Conflicts of Interest: The authors declare no conflict of interest.

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