



## CHATGPT IN THE ACADEMIC WRITING CLASSROOM

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### ABSTRACT

Artificial intelligence has made inroads into the field of education, particularly with regard to academic writing for language learners. As ChatGPT demonstrates in the learning process, AI is able to react in a highly natural language and have conversations in a variety of scenarios. This essay explores how ChatGPT can support the academic writing process through a rigorous literature review. It demonstrates that ChatGPT may generate interest across a wide linguistic spectrum, gather the most recent knowledge to assist with a range of activities, reply to inquiries with sincere dialogue, and improve writing skills. It also figures out the connection of process of writing based on (Nang et al., 2008) by using ChatCPT companions. Meanwhile, wisdom in use of it in the learning environment should be taken into consideration because of losing creativity and lack of conversational practice. Therefore, it is suggested to learners and teachers to be careful and wise to interact with this technological tool, since humans can only provide judgement and verification maker.

*Keywords: Artificial Intelligence; ChatGPT; Academic Writing*

### 1. INTRODUCTION

One of today's most important and groundbreaking technologies is artificial intelligence (AI). It emerges as one of the most important and revolutionary technological advancements of our time (Golan et al., 2023). When we hear the word artificial intelligence, we typically picture a supercomputer—a machine with incredible processing capacity, adaptable capabilities like sensory inclusion, and other qualities that make it seem human (Chen et al., 2020). Aldosari said, "Artificial intelligence is one of the most prominent modern applications of information systems as a field of modern knowledge that is interested in studying and understanding the nature of human intelligence and its simulations to create a new generation of smart computers that can be programmed to accomplish many of the

tasks that need a high ability of inference, deduction and perception, which are qualities that people enjoy. It is included in the list of smart behaviors" (Aldosari, 2020). It means that AI is a system that is created to have abilities like humans.

Applications of artificial intelligence are necessary in every area of life. It covers a variety of subjects, including languages, computer technology, psychology, philosophy, and mathematics (Lesia Viktorivna et al., 2022). It has also been embraced and applied in a variety of ways in education, particularly by educational institutions (Chen et al., 2020). Artificial Intelligence holds great promise for transforming society. Numerous facets of human life will be able to be created, altered, and improved through the application of AI. For instance, teachers are no longer required

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to go through each student's exam results one by one with a pen and check them. With AI, students can do the exam with the application, and the teacher will immediately be able to see the scores of his students. Hence, it is important to study about this AI.

A lot of scholars have been interested in researching AI in education in recent years. The study (Majid, Ishfaq, and Lakshmi, 2022) covered the use of AI across a range of academic and educational domains. The purpose of artificial intelligence (AI), its effectiveness, and workable methods for using it effectively were all examined by Lesia Viktorivna et al. (2022).

(Salvagno et al., 2023) stated that one of AI platform (such as "elicit.org") can help researcher to review the academic paper and research. Not only does it proceed with finding references, but also it gains summary, highlight intended areas of confusion and so on. In relation to this occasion, (Khabib, 2022) convinced that the process of writing a scientific article to be easier and more enjoyable with the help of AI. This tool provides to reduce errors and mistakes to reach accuracy and more efficient writing. Also, AI can suggest feedback to improve the writing by generating ideas with powerful significance to aid language processing when users find ideas dormant in certain demands. Based on the previous research conducted by some experts around the world, has clearly figured out that AI can be used to support students' productive skill especially Academic Writing which has been more inclusive and accessible in the language

classroom (Majid, Ishfaq and Lakshmi, 2022). However, beyond using it, AI in academic writing must be presented in a specific role so that teacher and students in the class recognize how to proceed wisely.

It is the reason why AI needs companions to use. There are difficulties associated with creating intelligent tutoring systems and adaptive learning systems encompassing more than just computer programming abilities. It is because AI involves the methods used to replicate the intelligence of human experts. These challenges arise because Artificial Intelligence in Education (AIED) is a field that significantly relies on technology and encompasses various disciplines. If users are lack of an understanding of the roles of AI in class and the workings of AI technologies, they may struggle to effectively implement AIED applications and activities (Hwang et al., 2020).

Another obstacle is insufficiency of AI generated language which is not consistently natural. Students must work hard to improve and modify the created language (Sumakul et al., 2022).

One of the examples of AI that can be used in Academic Writing is ChatGPT. Initially, (Aldosari, 2020) presented evidence that there is a decrease in the level of awareness of the mechanisms of applying artificial intelligence, and suggested a need to further spread awareness on the possibilities of using artificial intelligence applications in education. In detail, (Lesia Viktorivna et al., 2022) reviews AI in language learning that

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learners are afraid of in EFL Ukrainian University where AI have been understood in a very high level. The learners depicted that ChatGPT can generate ideas, finding literature, summarizing research finding, writing abstract, and proofreading which prevents plagiarism. It is also good at writing specialized articles which can surpass the human capabilities. As a result, learners must head off to losing personal information and fear of losing natural environment with speakers and real emotions. AI additionally can lessen the learners' spontaneity and creativity in language learning. So that, AI requires the wisdom of human content designers and educational experts to maintain the existence of human knowledge as (Schmohl et al., 2020) suggested previously.

**2. LITERATURE REVIEW****ChatGPT**

ChatGPT is a tool developed by OpenAI that utilizes artificial intelligence (AI) to create a chatbot interface. It serves multiple functions, including aiding in writing, editing, and planning research. With its capabilities, ChatGPT offers suggestions, corrects grammar, and provides recommendations to enhance written content. Its purpose is to assist users in tasks like generating project ideas, reviewing study designs, and improving academic writing (Golan et al., 2023). This technology involves training algorithms on large datasets to make predictions based on the provided data. It encompasses tasks like language translation,

voice recognition, and image recognition (Haleem et al., 2022).

According to (Salvagno et al., 2023) ChatGPT is a type of AI software designed to have discussions with human users. This chatbot uses pre-programmed algorithms to understand natural language inputs and deliver relevant responses, which can be generated by the AI in real-time or pre-written. ChatGPT continuously works to enhance its ability to comprehend and satisfy user needs by utilizing machine learning, natural language processing, and reinforcement approaches.

**Specific Features and Capabilities of ChatGPT**

ChatGPT is useful in a variety of fields because of its capacity to react and provide context for commands. It handles user questions and input more quickly and accurately in the shortest amount of time. In addition to offering natural language for usage, this machine learning can be quite effective at comprehending words and sentences in a variety of languages (Haleem et al., 2022). New writing tools, driven by AI and available on mobile devices are potential tools for assisting students in acquiring and developing writing abilities that are difficult to master through traditional instruction (Nazari et al., 2021). One of the most significant benefits of using AI-based tools in academic writing is that they can save time and increase efficiency (Golan et al., 2023). Artificial Intelligence may be an effective assist-writing tool in English for Academic Writing.

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The utilization of Artificial Intelligence in education, known as AIED, has created new opportunities for developing effective learning activities and improving the development of technology-driven learning applications and settings (Hwang et al., 2020). The use of ChatGPT has simplified the completion of administrative tasks and enhanced the efficiency and efficacy of teachers or instructors in delivering instructions and guidance to students (Chen et al., 2020). Consequently, their motivation and confidence are elevated, leading to a sense of responsibility for their own learning and fostering autonomy (Nazari et al., 2021). The rapid progress of AI offers thrilling prospects for education, a diverse range of technologies, features, and functions (Zhang & Aslan, 2021).

ChatGPT has the potential to enable diverse interactions, enhance learner engagement, develop adaptive learning materials, provide metacognitive prompts, create enriched learning environments, and improve student learning results (Zhang & Aslan, 2021). AI can be efficiently utilized to transcribe lectures delivered by faculty members in local languages, thereby creating valuable educational materials for students pursuing technical education (Majid, Ishfaq and Lakshmi, 2022). In addition, (Salvagno et al., 2023) stated that ChatGPT has the potential to be a very effective and valuable resource for various tasks, including creating drafts automatically, summarizing articles, and translating languages. Its application in

academic can greatly enhance the speed and convenience of writing tasks (Bom, 2023).

Not only to individual use of benefits, AI is also helpful in instructional language learning. (Nazari et al., 2021) and (Sumakul et al., 2022) initially investigated the teachers' perspective towards the use of AI in the classroom. The results show that all teachers had positive perceptions towards the use of AI in their classrooms and teacher agreed that AI help students to learn which indicate the students' motivational levels in technological competence should be put into consideration when students AI involve in EFL classroom.

Besides of such evidence, (Godwin-Jones, 2022) and (Majid, Ishfaq and Lakshmi, 2022) depicted that AI use in the classroom when it is integrated into writing instruction and practice, has significant benefit to both students and teachers. Teachers are helped to provide students in gaining meta-linguistics knowledge prompted by AI, displaying how it can personalize information to be used as a learning experience, and overcoming weaknesses to enable students reach the learning goals. It is inclusive and accessible to self-learning automatically.

Different view from (Bom, 2023) who has argued that ChatGPT does not yet support input in graph or picture formats. The text generated by ChatGPT might not match the format commonly used in academic papers, so it required a lot of editing. One problem with ChatGPT is that it needs accurate input data to provide accurate results. However, the extended reproduction of false data should be bear in mind. Authors in this case, are

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responsible for ensuring that there are no concerns about potential plagiarism.

**3. METHODS**

In order to investigate ChatGPT in English academic writing, the study conducted a systematic literature review, as described in (Nang et al., 2008). Finding relevant papers on the research topic was the first step in the process. The author searched books, journals, and papers for information or literary material to give a solid foundation for the topic and substance. Specifically, a worldwide and national literature which is undertaken utilizing Google Scholar and ScienceDirect databases.

**4. RESULTS AND DISCUSSION**

The role of ChatGPT in the academic writing can be seen by some of the practice based on the ChatGPT can offer. The description is presented in the following.

**1. Gaining widespread interest with variety of language input**

ChatGPT can create suggestions on almost everything, such as composing essays, articles, poetry, translated material, and more. ChatGPT can understand and react to diverse language inputs and obtain simple, uncomplicated answers to inquiries instead of using a search engine like Google. In academic writing, students can interact with the chatbot to stimulate their initial knowledge to the topic they are going to write. Relationship among other ideas can be generated as brainstorming at the preparation stage of writing. Thus, composing a writing

can be initiated by the interaction between students and ChatGPT can gain knowledge from its interaction with users

**2. Picking up latest information to help for variety of tasks**

ChatGPT can be used for various things such as creating code, recommending meals, enhancing the quality of life for older people and those with impairments. As like reacting to a broad range of cues, and almost nothing beyond its capabilities. In writing academically, students are necessary to support ideas with facts and thought from original sources of information. Because ChatGPT can pick up on and adjust to new information of its main features, students are offered by some facts to write their thought. It is figured out as the way of understanding much more in a specific idea, in which ChatGPT supply various number of options to select accurately by students.

**3. Respond to Enquiry with Genuine Conversation**

ChatGPT is skilled at answering questions, making recommendations and making predictions. It is a very complex tool to accompany students in writing. It maintains the students focusing on the topic they relate to their writing by questioning a tool when they need to ask for something. Their writing can be composed more directed for ChatGPT can straight the track of students writing. It also defines words and sentences impressively, providing students a forum to ask questions and clear up any confusion. Interestingly, ChatGPT can look and sound like genuine conversations and responses

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seem very human, in the process of writing, students use its easiness of working together with it.

**4. Developing stronger Writing Ability**

ChatGPT facilitates assessment and grading by shifting the focus from error correction to the development of more important writing skills. How it is applied is required. Because ChatGPT can reorganize a writing draft, students can use it to generate dynamic interest. By providing feedback for pupils to modify as needed, it can detect such unclear patterns in their work. As a result, writing has been enhanced, fixed, recommended, and supported by certain predictions.

**DISCUSSION**

A challenge with ChatGPT is its reliance on accurate input data to give precise results (Bom, 2023). In the pre-writing process, as suggested by (Nang et al., 2008) students can choose various topic restricted by lecturer and decide a narrow topic in the very specific topic. Brainstorming to generate ideas by listing, free writing, and clustering. At this time intellectual aspect of students must be exposed to relevant topic suggested by ChatGPT to have accurate feedback and respond. If it is less than students' criteria, then ChatGPT cannot access related topics to offer. This is also the case (Lesia Viktorivna et al., 2022) afraid of EFL Ukrainian University where AI have been understood in a very high level. So that, ChatGPT can be used to find relevant literature, suggest ideas

or any research finding, and give feedback to gain the intended data.

It must be noticed to users in the process of writing academically, planning and writing step, ChatGPT purpose is to assist users in tasks like generating project ideas, reviewing study designs, and improving academic writing as (Golan et al., 2023) argued. It happens when students making their first draft, outline, and paragraph development. ChatGPT is not a copy machine to paste on the worksheet, but it is a tool to interact with while writing to accompany the users to finding ideas.

Additionally, students rework their amended drafts of academic writing during the post-writing step. ChatGPT can provide feedback on unclear statements and recommend an alternative way to phrase similar ideas (Haleem et al., 2022). Students get the chance to carefully review their written output here. Using ChatGPT to learn during a writing revision process makes it efficient to identify writing roadblocks that could otherwise go unnoticed. However, crucial problem with ChatGPT is found in the practical act of conduct in the health care and medicine. Delivered by (Salvagno et al., 2023) who said that there is no publication in the field of critical care medicine which prepared using a certain approach; however, this will be a possibility in the next future. Even if various fields of data used by chatbot, there is still human power to give judgment and decision or application. Therefore, the use of AI in education still involves debates in

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ethical practice and verification to eliminate challenges.

**5. CONCLUSION**

There are numerous advantages to using artificial intelligence (AI) in academic writing. AI can streamline the writing and editing process, boost productivity, and save time. The employment of these technologies is controversial even if there are several advantages. When learning a language, artificial intelligence (AI) can inhibit learners' spontaneity and inventiveness, and the outcomes are not always natural. Nevertheless, people must recognize and take use of AI's benefits as it will inevitably become a part of daily life.

The AI chatbot tool ChatGPT, created by OpenAI, offers a lot of possible applications. There is a chance that this technology will boost output and help with education, particularly with writing. Its application is however constrained by a number of issues, including biased and false information, occasionally erroneous data, a lack of support for input in graphic or image formats, and more. Depending on how they utilize it, it can present both an opportunity and a challenge for its users. In order to be able to use this technology in an ethical and responsible manner, it is crucial that users assess and govern it.

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**7. REFERENCES**

- Aldosari, S. A. M. (2020). The future of higher education in the light of artificial intelligence transformations. *International Journal of Higher Education*, 9(3), 145–151. <https://doi.org/10.5430/ijhe.v9n3p145>
- Bom, H. S. H. (2023). Exploring the Opportunities and Challenges of ChatGPT in Academic Writing: a Roundtable Discussion. *Nuclear Medicine and Molecular Imaging*, 0123456789, 2–4. <https://doi.org/10.1007/s13139-023-00809-2>
- Chen, L., Chen, P., & Lin, Z. (2020). Artificial Intelligence in Education: A Review. *IEEE Access*, 8, 75264–75278. <https://doi.org/10.1109/ACCESS.2020.2988510>
- Godwin-Jones, R. (2022). Partnering with AI: Intelligent writing assistance and instructed language learning. *Language Learning & Technology*, 26(2), 5–24. <http://doi.org/10125/73474>
- Golan, R., Reddy, R., Muthigi, A., & Ramasamy, R. (2023). Artificial intelligence in academic writing: a paradigm-shifting technological advance. In *Nature Reviews Urology*. <https://doi.org/10.1038/s41585-023-00746-x>
- Haleem, A., Javaid, M., & Singh, R. P. (2022). An era of ChatGPT as a significant futuristic support tool: A study on features, abilities, and challenges. *BenchCouncil Transactions on Benchmarks, Standards and Evaluations*, 2(4), 100089. <https://doi.org/10.1016/j.tbench.2023.100089>

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- Hermansyah, Jaya, A., Pratiwi, E., & Fitri, A. (2021). Teacher's Strategies In Teaching Speaking During Covid-19 Pandemic. *Journal of English Education and Teaching (JEET)*, 5(3), 349–367. <https://doi.org/10.56983/ijp.v2i1.483>
- Hwang, G. J., Xie, H., Wah, B. W., & Gašević, D. (2020). Vision, challenges, roles and research issues of Artificial Intelligence in Education. *Computers and Education: Artificial Intelligence*, 1, 1–5. <https://doi.org/10.1016/j.caeai.2020.100001>
- Jaya, A., Hermansyah, H., & Rosmiyati, E. (2019a). The implementation of project-based learning in increasing speaking achievement and self-confidence. *Indonesian Educational Administration and Leadership Journal (IDEAL)*, 1(1), 4–14.
- Jaya, A., Hermansyah, & Rosmiyati, E. (2019b). Redefining Project Based Learning In English Class. *Esteem Journal of English Education Study Programme*, 2(<https://jurnal.univpgri-palembang.ac.id/index.php/esteem/issue/view/304>). <https://doi.org/https://doi.org/10.31851/esteem.v2i2.2423>
- Kaforina, M., Mulyadi, M., & Jaya, A. (2023). the Students' Personality Based on Their Reading Attitude. *Esteem Journal of English Education Study Programme*, 7(1), 12–23. <https://doi.org/10.31851/esteem.v7i1.12654>
- Khabib, S. (2022). *Introducing artificial intelligence (AI)-based digital writing assistants for teachers in writing scientific articles*. 1(2), 114–124.
- Lesia Viktorivna, K., Andrii Oleksandrovych, V., Iryna Oleksandrivna, K., & Nadia Oleksandrivna, K. (2022). Artificial Intelligence in Language Learning: What Are We Afraid of. *Arab World English Journal*, 8, 262–273. <https://doi.org/10.24093/awej/call8.18>
- Majid, Ishfaq and Lakshmi, Y. V. (2022). Artificial Intelligence in Education. *The Indian Journal of Technical Education*, 45(3), 11–16.
- Nang, K. Y., Tltng, V., Oshima, A., & Hogue, A. N. N. (2008). *Writng Academic English Third Editions*.
- Nazari, N., Shabbir, M. S., & Setiawan, R. (2021). Application of Artificial Intelligence powered digital writing assistant in higher education: randomized controlled trial. *Heliyon*, 7(5), e07014. <https://doi.org/10.1016/j.heliyon.2021.e07014>
- Putri, A. D., Jaya, A., & Marleni, M. (2023). Exploring the Students' Speaking Ability Based on Their Different Personalities. *Esteem Journal of English Education Study Programme*, 6(1), 10–16. <https://doi.org/10.31851/esteem.v6i1.10203>
- Salvagno, M., Taccone, F. S., & Gerli, A. G. (2023). Can artificial intelligence help for scientific writing? *Critical Care*, 27(1), 1–5. <https://doi.org/10.1186/s13054-023-04380-2>
- Sari, A., Jaya, A., Hermansyah, H., & Mortini, A. V. (2022). Using Mixidea Online Debating Strategy To Promote the Students' Speaking Ability. *Esteem Journal of English Education Study Programme*, 5(2), 298–303. <https://doi.org/10.31851/esteem.v5i2.8591>
- Schmohl, T., Watanabe, A., Fröhlich, N., & Herzberg, D. (2020). How can Artificial Intelligence Improve the academic writing of students? *The Future of Education*, 12–14. <https://thesiswriter.zhaw.ch/>
- Sujiati, R., Jaya, A., Rosmiyati, E., & Noviati. (2023). Efl Teachers' Attitudes and Experiences on the Implementation of Multiliteracies. *Esteem Journal of English Education Study Programme*, 7(1), 85–96.



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<https://doi.org/10.31851/esteem.v7i1.12653>

Sumakul, Y. G., Toar, D., Hamied, A., & Sukyadi, D. (2022). Language Education and Acquisition Research Network Artificial Intelligence in EFL Classrooms: Friend or Foe? *LEARN Journal: Language Education and Acquisition Research Network*, 15(1), 232–256. <https://so04.tci-thaijo.org/index.php/LEARN/index>

Zhang, K., & Aslan, A. B. (2021). AI

technologies for education: Recent research & future directions. *Computers and Education: Artificial Intelligence*, 2, 100025.

<https://doi.org/10.1016/j.caeai.2021.100025>