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BOOSTING ENGLISH WRITING SKILLS: HOW GINGER SOFTWARE EMPOWERS LANGUAGE LEARNERS

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Abstract

Writing skills are essential for learners in mastering English as a global language. Non-native learners face challenges such as grammatical errors, limited vocabulary, and lack of confidence, making technological solutions like Ginger Software highly relevant. This study employed a Systematic Literature Review (SLR) to analyze the effectiveness of Ginger Software in enhancing English writing skills. The research synthesizes findings from various studies published between 2015 and 2025, highlighting Ginger's ability to improve grammar, vocabulary, and sentence structure through real-time feedback and context-based learning. Results indicate that Ginger Software significantly enhances writing quality, supports self-directed learning, and increases learners' motivation. However, challenges such as accessibility limitations, integration into workflows, and over-reliance on technology were also identified. While Ginger Software proves beneficial for addressing common writing errors, its limitations in providing nuanced, contextualized feedback emphasize the continued importance of educators in the learning process. This study concludes that combining AI-based tools like Ginger Software with traditional teaching methods can provide a balanced and comprehensive approach to improving English writing skills. Future research should explore strategies for greater inclusivity and the development of hybrid models integrating AI technologies with human instruction.

Keywords: *English writing skills, Ginger Software, language learning tools, systematic review, technology integration*

INTRODUCTION

Writing skills in English have an important role in the era of globalization, where English is a lingua franca in various sectors (Gotti, 2017). Writing is one of the main pillars in English language learning as it reflects the mastery of grammar, vocabulary, and the ability to convey ideas in a structured manner (Zulaiha et al., 2024). For non-native learners, writing is often a challenge due to differences in grammar and writing style from their native language (Ilham et al., 2025, 2020; Ilham, 2022, 2023, 2024). Other barriers include limited vocabulary, lack of confidence, and lack of quality feedback (Berliani et al., 2024). These difficulties point to the importance of support in learning, especially through technology. Tools such as adaptive software can help learners improve their writing skills more efficiently. This approach aligns with adaptive learning theory, which supports personalized feedback to improve language acquisition outcomes (Yaseen et al., 2025).

Technological advances have changed the approach to language learning to be more interactive, adaptive, and personalized (Nurbayanni et al., 2023). Various innovations, such as online learning platforms, mobile applications, and artificial intelligence (AI)-based software, support learners' specific needs (Sunarti, 2024). In writing skill development, software such as Grammarly, ProWritingAid and Ginger Software helps

correct grammatical errors, suggest vocabulary, and construct sentences effectively. Ginger Software, for example, offers auto-correction and context-based learning, which fosters deeper cognitive processing by enabling learners to identify and internalize their grammatical mistakes (Lira et al., 2025). This makes AI-based apps like Ginger Software relevant for supporting more effective writing learning. This solution is especially beneficial for non-native learners who need practical guidance. With this technology, the learning process can take place more efficiently and deeply.

Ginger Software is a technology-based tool designed to support the development of writing skills, especially for non-native English learners (Arisandy et al., 2021). It offers key features, such as grammar correction to automatically correct errors, a paraphrasing feature that helps to rephrase sentences with more variety, and vocabulary suggestions to enrich word choice. Ginger Software also provides context-based learning, allowing users to understand the reasoning behind the corrections (Defianty et al., 2024). These features not only correct errors instantly but also improve the overall quality of writing. With its practical and adaptive approach, While Ginger Software offers a practical and adaptive approach that benefits many learners, its effectiveness may vary depending on individual learning preferences, goals, and digital literacy levels. Therefore, it should be viewed as a complementary tool rather than a universal solution for writing improvement (Restika et al., 2021).

The effectiveness of technology in developing writing skills has been demonstrated through various studies. Technologies such as Speech-to-Text (STT) effectively improve the writing skills of special education students (Khasawneh, 2024), while digital tools support the development of professional grammar and format in English for Special Purposes. Technology integration in content courses improves students' collaborative abilities (Mashauri et al., 2024), and tools such as WhatsApp were shown to improve descriptive text writing (Yuningsih, 2021). Numerical substitution techniques also showed positive results on procedural paragraph writing (Muhamad, 2022). Other digital tools, such as learning apps, help ESL students improve grammar and vocabulary while increasing learning autonomy (Ramamuthie & Abdul Aziz, 2022). It’s vital to strike a balance between technological advancements and conventional techniques to maintain key learning competencies.

The use of software such as Ginger significantly improves English writing skills, including grammar, punctuation, and vocabulary (Badi et al., 2020). Ginger also encourages independent learning and increases student motivation. Research shows an increase in students' average score in writing descriptive text from 52.84 to 85.4 with Ginger (Widiawati et al., 2023). Grammarly is also effective, increasing text analysis scores from 66.43 to 80.74 (Sulistyowati, 2021) and increasing students' confidence in writing (Marliyanda et al., 2022). Although useful, it is important to balance the use of technology with traditional methods so that basic skills are maintained (Rohmatika et al., 2020).

METHODOLOGY

The Systematic Literature Review (SLR) research method is a systematic approach used to identify, evaluate, and interpret all relevant research related to a specific research question, topic area, or phenomenon of interest. SLR differs from traditional literature reviews in that it uses rigorous protocols for searching and selecting pertinent studies, as well as transparent and replicable methods for compiling its data. According to Okoli and Schabram (2015), SLR helps reduce bias in selecting literature and ensures that the entire range of relevant research is taken into account. The underlying theory of SLR is rooted in rigorous research methodologies that emphasize objectivity, transparency, and replicability. SLR integrates both quantitative and qualitative data synthesis techniques, such as meta-analysis and thematic synthesis, to analyze and combine findings from multiple studies. This methodological approach ensures comprehensive and unbiased evidence gathering, making it an essential tool for identifying patterns and gaps in existing research (Xiao & Watson, 2019). SLR is often used in the health sciences, information technology, and social sciences to summarize existing knowledge and identify research gaps that need to be filled.

This study aims to explore and analyze the impact of using Ginger Software in improving English writing skills. The main objective of this research is to identify and synthesize findings from various studies that have been published on this topic, to provide a more comprehensive understanding of the effectiveness of Ginger Software in English language learning. A literature search strategy was used on several major academic databases such as Google Scholar, Scopus, and DOAJ, which were selected for their wide coverage of peer-reviewed research in the fields of education, language learning, and educational technology, ensuring both credibility and relevance of the sources included. The keywords used in the search included “Ginger Software”, “English writing skills”, “writing enhancement tools”, and “language learning apps”. This literature search included publications published from 2015 to 2025 to ensure the relevance and actuality of the findings analyzed.

Inclusion and exclusion criteria were determined to maintain the quality and relevance of the studies included in this review. Studies that met the inclusion criteria were those that focused on using Ginger Software to improve English writing skills, were published in academically recognized journals, and used reliable research methods. Conversely, studies that were irrelevant to the topic, not available in full text, or did not use clear methods were excluded from the analysis. Data selection and extraction were performed in several stages. First, abstracts and titles of all studies found through the initial search were examined to determine their relevance. Studies that met the inclusion criteria were then analyzed in depth, and relevant data such as research methodology, sample, interventions used, and key outcomes and findings were extracted and recorded in standardized data sheets. This process was conducted to ensure that the analysis was comprehensive and reliable. With this approach, the research is expected to make a significant contribution to understanding the role of

Ginger Software in improving English writing skills and provide useful recommendations for educators, learners, and language learning software developers.

FINDINGS AND DISCUSSION

1. The Effectiveness of Ginger Software

Research shows that various methods and applications can improve students' English writing skills. Ginger Writer was shown to be effective in improving the ability to write descriptive text, with an increase in the average score from 52.84 to 85.4 (Widiawati et al., 2023). The Android application "Learn English Better" also showed positive results in improving high school students' writing skills (Siswanto, 2022). The Total Physical Response (TPR) method was found effective in learning English, including vocabulary acquisition and listening skills, with an effect size of 0.478 (Monita & Prasetyo, 2021). Meanwhile, the use of Grammarly successfully improved expository analysis text writing skills, with an increase in the average score from 66.43 in the pre-test to 80.74 in the second post-test (Sulistyowati, 2021). These results show that various methods and applications can improve students' English writing skills.

Ginger Software, an AI-assisted tool for improving English writing skills, has been shown to offer meaningful support in enhancing learners' written output. Research indicates that such software can improve writing quality by providing timely feedback and targeted strategies, contributing to vocabulary development, sentence structure, and overall readability (Wang, 2024). One key feature of Ginger Software is its ability to deliver immediate corrections, enabling learners to understand and rectify their mistakes promptly (Wang, 2024). Studies have found that users of AI tools like Ginger tend to reduce lexical errors and demonstrate writing improvement over time (Beltrán & Echitchi, 2022). Learners also report positive experiences, highlighting the software's usefulness in supporting self-directed learning (Whitaker, 2016). While Ginger Software provides personalized assistance, it is best seen as a complementary tool to traditional methods, such as teacher feedback, which still plays a critical role in addressing complex and contextual errors (Beltrán & Echitchi, 2022). Similarly, other AI writing tools, including Automated Writing Evaluation (AWE) systems, have shown comparable outcomes in grammatical correction and writing enhancement (Abdul et al., 2022). However, despite its advantages, it is crucial to acknowledge that technology cannot fully replace the nuanced feedback provided by experienced educators, as certain errors require human insight for accurate correction (Beltrán & Echitchi, 2022).

These studies underline the important role of technology in English language learning. Ginger Software proved to excels in providing immediate feedback that allowed users to immediately correct errors, improve vocabulary, and compose more structured writing. On the other hand, apps such as Grammarly and Learn English Better provide significant results in specific educational contexts, such as high school students and academic writing. The TPR method also contributes to improving general language acquisition, although the focus is not entirely on writing skills. This shows that each approach has specific advantages that can be utilized according to user needs. The main advantage of Ginger Software is its ability to provide real-time feedback,

which is very beneficial for self-directed learning. However, as stated Beltrán and Echitchi (2022), this technology has limitations in providing contextualized feedback that requires human understanding. In addition, improved outcomes in studies such as the one reported by Widiawati et al. (2023) focused more on one type of text, namely descriptive text, and thus less reflective of the flexibility of the application across different genres of writing. This suggests that while technology can help, the role of the educator remains necessary to provide more in-depth guidance.

2. Impact on the Specific Writing Component

Recent studies have explored the use of various writing assistance tools to improve specific aspects of writing skills. The Ginger Writer application was found to enhance students' descriptive text writing abilities, particularly in grammar, vocabulary, and punctuation (Widiawati et al., 2023). Research on Indonesian writing errors revealed that conjunction usage in syntax was the most common mistake (67%) among writing training participants (Sa'diyah, 2022). ChatGPT has shown promise in improving writing skills based on the 6C framework, with students reporting benefits in grammar, sentence structure, and writing style (Yasmar et al., 2023). These studies demonstrate the potential of digital tools in addressing various aspects of writing, including grammar, sentence structure, and language style.

Ginger Software enhances writing skills by leveraging advanced digital technologies to address grammar, sentence structure, and language style, making it a valuable tool for educational practices. The software employs sophisticated algorithms to identify and correct grammatical errors, providing real-time feedback that enables users to learn from their mistakes and improve grammatical accuracy over time (Abdul et al., 2022; Li, 2022). Additionally, Ginger Software aids in refining sentence structure by suggesting alternatives and variations, leading to improved readability and complexity, as highlighted in studies on AI-assisted writing strategies (Wang, 2024). By analyzing sentence length and coherence, the platform helps users develop more sophisticated writing styles, fostering greater engagement in their writing tasks (Ummah, 2019). Moreover, the software promotes a diverse vocabulary and stylistic choices, encouraging users to explore different expressions and tones while providing feedback that aids in understanding the nuances of language style, which is essential for effective communication in specific contexts (Ummah, 2019; Wang, 2024). However, despite these significant advantages, it is crucial to acknowledge the potential drawbacks of over-reliance on such technology, which may hinder the development of critical self-editing skills among users (Ummah, 2019).

These findings underscore the importance of technology in supporting the development of English writing skills. Ginger Software provides practical solutions to common grammatical errors through automatic correction and real-time feedback, which is helpful in self-learning. In addition, it supports the development of better sentence structure by providing suggestions on variety and coherence, improving users' writing skills. The support for vocabulary and stylistic exploration shows that the tool not only improves technical aspects but also enriches users' expressive abilities. Other studies, such as those conducted by Widiawati et al. (2023) and Yasmar et al. (2023),

corroborate the effectiveness of these digital tools in various learning contexts. This confirms that technology can adapt to the specific needs of users, both students and teachers, to improve their writing skills holistically. While technologies like Ginger Software have many advantages, some limitations remain. One of the main advantages of this tool is its ability to provide immediate feedback, which facilitates quick and self-directed learning. In addition, features such as sentence structure analysis and vocabulary enrichment support users in producing higher-quality writing. However, research has also shown that over-reliance on these technologies may hinder the development of self-editing skills. (Ummah, 2019) warns that while these technologies are helpful, some errors still require contextual and cultural understanding, which automated devices struggle to address. Therefore, the role of educators remains important to supplement the shortcomings of the technology and provide more in-depth guidance.

3. Ginger Software's Challenges and Limitations

Recent studies have explored challenges in educational technology adoption and online systems. Research on the Ginger Writer application showed improved student writing skills and positive responses to its use (Widiawati et al., 2023). However, virtual teams in software engineering projects face difficulties in requirement gathering due to a lack of face-to-face interaction (Nasrullah et al., 2021). Teachers struggle to keep up with technological advancements, necessitating digital training and government support to maximize learning potential (Hulu, 2023). These studies highlight the importance of addressing technological challenges in education and training to enhance learning outcomes and prepare students for the digital era.

Ginger Software users face several challenges that hinder their ability to maximize the software's potential, which can be categorized into accessibility issues, user experience limitations, and difficulties in integration with existing workflows. Accessibility remains a significant concern, as the software’s interface may not be fully optimized for assistive technologies, making it less effective for users with disabilities (Parida & Sinha, 2021). These issues have been further exacerbated during the pandemic, as the shift to remote work highlighted the need for more inclusive technological designs (Parida & Sinha, 2021). Additionally, the integration of Ginger Software into existing workflows poses challenges, as many users struggle to incorporate its features into their routines, resulting in underutilization (Fadhilah et al., 2023). On the other hand, some users adapt by seeking alternative solutions or developing innovative strategies for communication and productivity, highlighting the potential for creative practices in response to technological limitations.

This research reveals that while technologies such as Ginger Software have great potential in enhancing learning, significant challenges in accessibility, user experience and integration may limit their benefits. Accessibility barriers, such as inadequate language support or limited device compatibility, reflect deeper issues in inclusive design and risk marginalizing learners with specific educational or technological needs. The pandemic has exacerbated these challenges by exposing the urgent need for more inclusive designs. Complicated navigation and limited

interactivity also indicate that software developers need to better understand user needs to create a more intuitive experience. In addition, difficulties in integrating the software into daily workflows point to the need for better training and adaptation for optimal use of these tools. The findings suggest that while technologies such as Ginger Software and other online systems provide many benefits, their effectiveness is often limited by underlying constraints. One of the main strengths is its ability to improve specific skills such as writing, but the lack of optimization for users with special needs highlights significant flaws in its design. Barriers to integration into daily workflows also reflect the need for more flexible software and training for users to understand its features.

CONCLUSION

Ginger Software and similar AI-assisted tools significantly enhance English writing skills by providing real-time feedback, personalized corrections, and advanced text analysis. These technologies are particularly effective in improving grammar, sentence structure, and language style, making them valuable for both students and professionals. However, despite their benefits, these tools face challenges such as limited inclusivity, suboptimal user experience, and difficulties in integrating with established workflows. Furthermore, while they excel in addressing basic errors, these tools often struggle with more complex issues like nuanced stylistic choices and contextual appropriateness. This underscores the importance of combining AI technologies with traditional teaching methods to create a more comprehensive and balanced learning environment.

These challenges reveal several gaps that demand urgent research. There is a need to explore how AI-assisted tools can be redesigned to ensure greater inclusivity, particularly for users with disabilities or those in underserved educational contexts. Research should also focus on improving the adaptability of these tools across diverse educational and professional settings. Additionally, the development of hybrid models that effectively integrate AI technologies with human instruction is crucial to maximize their potential while addressing their limitations. By investigating these areas, future studies can drive meaningful advancements in educational technology and its application in language learning.

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