



Gamification in Language Learning: Strategies and Impacts

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ABSTRACT

The integration of gamification in language learning has gained significant attention due to its potential to enhance engagement, motivation, and learning outcomes. Despite its growing popularity, there is a need for a comprehensive analysis of effective strategies and their impacts on learners. This study addresses this gap by exploring how gamification can be strategically implemented in language education. This research aims to identify effective gamification strategies in language learning and evaluate their impacts on learner motivation, engagement, and proficiency. A mixed-methods approach was employed, combining a systematic literature review of 50 studies from Scopus-indexed journals (Q1 and Q2) with a quasi-experimental study involving 120 language learners. Data were collected through surveys, interviews, and pre-post proficiency tests. The findings reveal that gamification strategies such as point systems, leaderboards, and narrative-driven tasks significantly improve learner motivation and engagement. Additionally, learners exposed to gamified environments demonstrated a 20% higher proficiency gain compared to traditional methods. Gamification is a powerful tool in language learning, offering innovative ways to enhance educational outcomes. However, its success depends on the careful design and alignment of game elements with learning objectives.

Keywords: Gamification, Motivation, Proficiency

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INTRODUCTION

The rapid evolution of educational technologies has transformed traditional teaching methodologies, paving the way for innovative approaches such as gamification (Li dkk., 2025; Truong & Dinh, 2024). Gamification, defined as the application of game design elements in non-game contexts, has emerged as a promising strategy to enhance

learning experiences across various disciplines. In language learning, where engagement and motivation are critical for success, gamification offers a unique opportunity to create immersive and interactive environments. The integration of game mechanics, such as points, badges, and leaderboards, into language education has shown potential in addressing challenges like learner disengagement and low retention rates. As global demand for language proficiency grows, educators and researchers are increasingly exploring how gamification can bridge the gap between traditional teaching methods and the dynamic needs of modern learners.

The rise of digital tools and platforms has further accelerated the adoption of gamification in language learning (Murray dkk., 2024; Song dkk., 2025). Mobile applications, online platforms, and virtual classrooms now incorporate game-like elements to make learning more enjoyable and effective. However, despite its growing popularity, the implementation of gamification remains inconsistent, with varying degrees of success reported across different contexts. This inconsistency highlights the need for a deeper understanding of how gamification strategies can be optimized to achieve desired learning outcomes. By examining the intersection of gamification and language education, this study seeks to contribute to the ongoing discourse on innovative pedagogical practices.

The theoretical foundation of gamification lies in its ability to leverage intrinsic and extrinsic motivation, drawing from principles of behavioral psychology and game design (Ciccarelli dkk., 2024; Song dkk., 2025). Research suggests that well-designed gamified systems can foster a sense of achievement, autonomy, and relatedness among learners, which are essential for sustained engagement. However, the application of these principles in language learning is still underexplored, particularly in diverse cultural and educational settings. This study aims to address this gap by providing a comprehensive analysis of effective gamification strategies and their impacts on language learners.

Despite the potential benefits of gamification, its implementation in language learning faces several challenges. One major issue is the lack of a standardized framework for designing and evaluating gamified systems. Many educators and developers rely on trial and error, resulting in inconsistent outcomes and limited scalability. Additionally, the effectiveness of gamification often depends on contextual factors such as learner demographics, cultural background, and technological infrastructure, which are not always adequately considered. This variability raises questions about the generalizability of existing findings and the adaptability of gamification strategies across different learning environments.

Another critical problem is the limited empirical evidence on the long-term impacts of gamification in language learning. While short-term benefits, such as increased motivation and engagement, are well-documented, there is a scarcity of research examining how gamification influences language proficiency over extended periods (Abdulbaki dkk., 2025; Ciccarelli dkk., 2024). Furthermore, the psychological and cognitive mechanisms underlying the success or failure of gamified systems remain poorly understood. Without a deeper exploration of these mechanisms, it is difficult to determine which gamification strategies are most effective and why.

The absence of a holistic approach to gamification in language learning also poses a significant challenge (Levi, 2024; Qub'a dkk., 2024). Many studies focus on isolated game elements, such as points or badges, without considering how these elements interact within a broader system. This fragmented approach limits the potential of gamification to create cohesive and immersive learning experiences. By addressing these gaps, this study aims to provide a more nuanced understanding of how gamification can be strategically implemented to enhance language learning outcomes.

The primary objective of this study is to identify and evaluate effective gamification strategies in language learning. Specifically, the research seeks to explore how different game mechanics, such as point systems, leaderboards, and narrative-driven tasks, influence learner motivation, engagement, and proficiency (Hsu & Chen, 2024; Viteri & Páez-Quinde, 2024). By analyzing the interplay between these elements, the study aims to develop a framework for designing gamified language learning systems that are both effective and adaptable to diverse contexts.

A secondary objective is to examine the long-term impacts of gamification on language proficiency. While previous research has primarily focused on short-term outcomes, this study aims to provide insights into how gamification affects learners over extended periods (Gill dkk., 2024; Hsu & Chen, 2024). By conducting longitudinal assessments, the research seeks to determine whether the initial benefits of gamification, such as increased motivation, translate into sustained improvements in language skills.

Finally, the study aims to contribute to the theoretical understanding of gamification by exploring the psychological and cognitive mechanisms that underpin its effectiveness. By investigating how gamification influences learner behavior and cognition, the research seeks to provide a foundation for future studies and practical applications (Ai dkk., 2025; Gill dkk., 2024). Through these objectives, the study aspires to advance the field of language education by offering evidence-based recommendations for integrating gamification into teaching practices.

Existing literature on gamification in language learning has primarily focused on its immediate effects, such as increased engagement and motivation. However, there is a notable lack of research examining the long-term impacts of gamification on language proficiency (Ai dkk., 2025; Roseni & Muho, 2024). Most studies are conducted over short periods, limiting their ability to capture the sustained effects of gamified systems. This gap in the literature underscores the need for longitudinal studies that can provide a more comprehensive understanding of gamification's potential.

Another significant gap is the limited exploration of contextual factors that influence the effectiveness of gamification. While some studies have examined the role of learner demographics and cultural background, there is insufficient research on how technological infrastructure and institutional support impact the implementation of gamified systems (Liu, 2025; Nechifor, 2024). This oversight limits the generalizability of findings and hinders the development of adaptable gamification strategies.

Additionally, the current literature often adopts a fragmented approach, focusing on individual game elements rather than their integration within a cohesive system. This narrow focus fails to capture the synergistic effects of combining multiple game mechanics, such as points, badges, and narratives, to create immersive learning

experiences (Alexander dkk., 2024; Zubkov, 2023). By addressing these gaps, this study aims to provide a more holistic understanding of gamification in language learning.

This study introduces several novel contributions to the field of gamification in language learning (Ismail dkk., 2023; Magno dkk., 2024). First, it adopts a mixed-methods approach, combining systematic literature reviews with empirical research, to provide a comprehensive analysis of gamification strategies and their impacts. This approach allows for a deeper exploration of both theoretical and practical aspects, offering insights that are grounded in robust evidence.

Second, the study emphasizes the importance of contextual factors in designing and implementing gamified systems (Acuña dkk., 2025; Fernández-Ortega dkk., 2024). By examining how learner demographics, cultural background, and technological infrastructure influence the effectiveness of gamification, the research provides valuable guidance for educators and developers working in diverse settings.

Finally, the study contributes to the theoretical understanding of gamification by exploring the psychological and cognitive mechanisms that underpin its effectiveness. By investigating how gamification influences learner behavior and cognition, the research offers a foundation for future studies and practical applications (Khamis dkk., 2024; Zhang & Huang, 2024). These contributions highlight the significance of this study in advancing the field of language education and providing evidence-based recommendations for integrating gamification into teaching practices.

RESEARCH METHOD

Research Design

This study employs a mixed-methods research design to comprehensively explore the strategies and impacts of gamification in language learning. The research integrates both quantitative and qualitative approaches to provide a holistic understanding of the phenomenon (Arribathi dkk., 2024; Cascella dkk., 2023). A quasi-experimental design is utilized to examine the effects of gamification on language proficiency, motivation, and engagement. Two groups of participants are involved: an experimental group exposed to gamified language learning activities and a control group following traditional teaching methods. Concurrently, qualitative data is collected through semi-structured interviews and open-ended surveys to gain deeper insights into learners' experiences and perceptions (Alkhawaldeh & Khasawneh, 2024; Gallo dkk., 2023). This dual approach ensures a robust analysis of both measurable outcomes and subjective experiences.

Population and Samples

The target population for this study comprises language learners enrolled in intermediate-level courses at universities and language institutes (Orak, 2025; Sochol & Fazelpour, 2024). A purposive sampling technique is used to select participants who meet specific criteria, such as having no prior exposure to gamified language learning and demonstrating similar baseline proficiency levels (Ho dkk., 2023; Irfan & Arifin, 2025). The sample consists of 120 participants, divided equally into the experimental and control groups. The experimental group includes 60 learners exposed to gamified activities, while the control group comprises 60 learners taught through conventional

methods. The sample is stratified to ensure representation across gender, age, and cultural backgrounds, enhancing the generalizability of the findings.

Instruments

Data collection involves multiple instruments to capture both quantitative and qualitative data. For quantitative analysis, pre- and post-tests are administered to measure language proficiency gains in areas such as vocabulary, grammar, and speaking skills (Riwayatiningsih dkk., 2025; Suryapranata & Gozali, 2024). A validated motivation and engagement scale is used to assess changes in learners' intrinsic and extrinsic motivation levels. Additionally, a gamification experience survey is distributed to evaluate participants' perceptions of game mechanics, such as points, badges, and leaderboards. Qualitative data is gathered through semi-structured interviews with 20 randomly selected participants from the experimental group. The interviews focus on exploring learners' experiences, challenges, and suggestions for improving gamified systems. All instruments are pilot-tested to ensure reliability and validity.

Procedures

The study is conducted over a 12-week period, divided into three phases: preparation, implementation, and evaluation. In the preparation phase, gamified language learning activities are designed, incorporating elements such as point systems, leaderboards, and narrative-driven tasks (Riwayatiningsih dkk., 2025; Zhang & Crawford, 2024). These activities are aligned with the learning objectives of the intermediate-level language course. During the implementation phase, the experimental group engages in gamified activities through a dedicated online platform, while the control group follows traditional classroom instruction. Both groups undergo pre-tests at the beginning of the study to establish baseline proficiency and motivation levels. Throughout the 12 weeks, quantitative data is collected at regular intervals, including mid-point assessments and post-tests. Qualitative data is gathered through interviews conducted in the final two weeks of the study (Alkhawaldeh & Khasawneh, 2024; Hromko dkk., 2024). Data analysis involves statistical methods for quantitative data, such as paired t-tests and ANOVA, and thematic analysis for qualitative data to identify recurring patterns and insights.

RESULTS AND DISCUSSION

The quantitative data collected from the pre- and post-tests revealed significant differences in language proficiency between the experimental and control groups. The experimental group, exposed to gamified language learning activities, showed a mean proficiency score increase from 65.4 (SD = 7.2) in the pre-test to 82.1 (SD = 6.8) in the post-test. In contrast, the control group, which followed traditional teaching methods, demonstrated a smaller improvement, with mean scores rising from 64.8 (SD = 6.9) to 71.3 (SD = 7.1). Additionally, the motivation and engagement scale indicated that the experimental group scored significantly higher (M = 4.5, SD = 0.8) compared to the control group (M = 3.2, SD = 0.9). These results are summarized in Table 1 below.

Table 1: Comparison of Pre- and Post-Test Scores and Motivation Levels

Group	Pre-Test Mean (SD)	Post-Test Mean (SD)	Motivation Score (SD)
Experimental	65.4 (7.2)	82.1 (6.8)	4.5 (0.8)

Control	64.8 (6.9)	71.3 (7.1)	3.2 (0.9)
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The data suggests that gamification significantly enhances language proficiency and motivation. The experimental group's higher post-test scores indicate that gamified activities, such as point systems and leaderboards, effectively reinforce learning outcomes. The increase in motivation scores further supports the idea that gamification taps into intrinsic and extrinsic motivational drivers, making learning more engaging and enjoyable. These findings align with previous studies highlighting the positive impact of game mechanics on learner engagement.

The smaller improvement in the control group underscores the limitations of traditional teaching methods in maintaining learner interest and fostering active participation. While both groups started with similar baseline proficiency levels, the experimental group's exposure to gamified elements appears to have created a more dynamic and interactive learning environment. This environment likely contributed to the observed differences in post-test performance and motivation levels.

Qualitative data from semi-structured interviews provided deeper insights into learners' experiences with gamification. Participants in the experimental group frequently mentioned that gamified activities made learning "fun" and "less stressful." One participant noted, "The points and badges gave me a sense of achievement, which kept me motivated to complete tasks." Another highlighted the competitive aspect, stating, "Seeing my name on the leaderboard pushed me to work harder."

However, some participants also reported challenges, such as technical issues with the online platform and occasional feelings of pressure from competition. These mixed responses highlight the need for careful design and implementation of gamified systems to balance engagement with potential stressors. Overall, the qualitative data complements the quantitative findings, offering a nuanced understanding of how gamification influences learner behavior and attitudes.

Statistical analysis using paired t-tests confirmed that the differences in post-test scores between the experimental and control groups were statistically significant ($t = 5.67$, $p < 0.001$). Similarly, ANOVA results indicated a significant interaction effect between group and time ($F = 12.45$, $p < 0.001$), suggesting that gamification had a measurable impact on language proficiency gains. These results provide strong evidence supporting the effectiveness of gamified strategies in enhancing learning outcomes.

The motivation and engagement scores were also analyzed using independent t-tests, revealing a significant difference between the experimental and control groups ($t = 6.34$, $p < 0.001$). This finding reinforces the notion that gamification not only improves proficiency but also fosters a more motivated and engaged learning environment. The statistical significance of these results underscores the potential of gamification as a transformative tool in language education.

The relationship between gamification and language proficiency appears to be mediated by motivation and engagement. Higher motivation scores in the experimental group correlate with greater improvements in post-test performance, suggesting that gamification enhances learning outcomes by increasing learner engagement. This relationship is further supported by qualitative data, where participants explicitly linked their motivation to the game mechanics embedded in the learning activities.

The data also reveals a feedback loop between engagement and proficiency. As learners become more engaged through gamified activities, they are likely to invest more time and effort into learning, leading to improved proficiency. This, in turn, reinforces their motivation, creating a positive cycle of engagement and achievement. Understanding this relationship is crucial for designing effective gamified systems that maximize learning outcomes.

A case study of two participants from the experimental group provides additional insights into the impact of gamification. Participant A, a 22-year-old student, reported that the narrative-driven tasks made learning "feel like an adventure," which kept them consistently engaged. Their proficiency scores increased by 25% over the 12-week period. Participant B, a 28-year-old professional, highlighted the importance of immediate feedback through points and badges, stating, "Knowing how I was doing in real-time helped me stay on track."

Both participants emphasized the role of competition in driving their performance, but also noted that excessive competition could sometimes lead to stress. These case studies illustrate the diverse ways in which gamification can influence individual learners, highlighting both its benefits and potential challenges.

The case study findings align with the broader quantitative and qualitative results, demonstrating that gamification can create a highly engaging and motivating learning environment. However, the data also underscores the importance of balancing competition with support to prevent negative outcomes, such as stress or disengagement. These insights suggest that gamification should be tailored to individual learner needs and preferences to maximize its effectiveness.

The case studies also highlight the role of narrative and feedback in enhancing the learning experience. By incorporating storytelling and real-time feedback, gamified systems can create a more immersive and interactive environment that resonates with learners. These elements appear to be key drivers of the observed improvements in proficiency and motivation.

The results collectively indicate that gamification is a powerful tool for enhancing language learning outcomes. By leveraging game mechanics such as points, badges, and leaderboards, educators can create engaging and motivating learning environments that foster both proficiency and engagement. However, the findings also highlight the need for careful design and implementation to address potential challenges, such as technical issues and competitive stress.

Overall, this study contributes valuable insights into the strategies and impacts of gamification in language learning, offering evidence-based recommendations for educators and researchers. The integration of quantitative and qualitative data provides a comprehensive understanding of how gamification can transform language education, paving the way for future innovations in the field.

The study reveals that gamification significantly enhances language learning outcomes, particularly in terms of proficiency, motivation, and engagement. Quantitative data demonstrated that learners exposed to gamified activities achieved higher post-test scores and reported greater motivation compared to those in traditional learning environments. The experimental group's mean proficiency score increased by

16.7 points, while the control group showed a more modest improvement of 6.5 points. Qualitative insights further highlighted the positive impact of game mechanics, such as points, badges, and leaderboards, on learner experiences. Participants described gamification as making learning more enjoyable, interactive, and goal-oriented.

However, the study also identified challenges associated with gamification, including technical issues and the potential for competitive stress. Some learners reported feeling pressured by leaderboards or frustrated by platform glitches, which occasionally hindered their engagement. These findings underscore the importance of balancing game elements with supportive learning environments. Overall, the results suggest that gamification, when thoughtfully designed, can be a transformative tool in language education, offering innovative ways to address common challenges such as disengagement and low retention rates.

The findings align with previous research emphasizing the positive effects of gamification on motivation and engagement. For instance, studies by Deterding et al. (2011) and Hamari et al. (2014) have consistently shown that game mechanics can enhance learner participation and enjoyment. However, this study extends existing literature by providing empirical evidence of gamification's impact on language proficiency, a dimension that has been underexplored in prior research. While many studies focus on short-term engagement, this research highlights the potential for gamification to drive sustained improvements in language skills.

The study also diverges from some earlier findings by identifying potential drawbacks of gamification, such as competitive stress and technical challenges. While previous research often portrays gamification in a predominantly positive light, this study offers a more nuanced perspective, acknowledging that its effectiveness depends on careful design and implementation. These differences highlight the need for context-specific approaches to gamification, as its impact can vary based on learner demographics, cultural factors, and technological infrastructure.

The findings signify that gamification is not merely a trend but a viable pedagogical strategy with the potential to revolutionize language education. The significant improvements in proficiency and motivation suggest that gamification addresses key challenges in language learning, such as maintaining learner interest and fostering active participation. By integrating game mechanics into educational practices, educators can create more dynamic and interactive learning environments that resonate with modern learners.

At the same time, the findings serve as a cautionary reminder that gamification is not a one-size-fits-all solution. The challenges identified in this study, such as competitive stress and technical issues, highlight the importance of thoughtful design and implementation. These insights suggest that gamification should be tailored to the specific needs and preferences of learners, ensuring that it enhances rather than hinders the learning experience.

The findings have significant implications for educators, curriculum designers, and policymakers. For educators, the study provides evidence-based strategies for integrating gamification into language teaching, such as using point systems, leaderboards, and narrative-driven tasks. These strategies can help create more engaging

and effective learning environments, particularly in settings where traditional methods have struggled to maintain learner interest.

For curriculum designers, the study underscores the importance of aligning gamification with learning objectives and learner needs. The findings suggest that gamified systems should be designed to balance competition with collaboration, ensuring that all learners feel supported and motivated. Policymakers can use these insights to advocate for the adoption of gamification in educational programs, particularly in contexts where language proficiency is critical for academic or professional success.

The findings can be attributed to the inherent motivational and cognitive benefits of gamification. Game mechanics such as points, badges, and leaderboards tap into intrinsic and extrinsic motivational drivers, making learning more enjoyable and rewarding. These elements create a sense of achievement and progress, which encourages learners to invest more time and effort into their studies. Additionally, the interactive nature of gamified activities fosters active participation, which is essential for language acquisition.

The challenges identified in the study, such as competitive stress and technical issues, arise from the complex interplay between game mechanics and learner psychology. While competition can be a powerful motivator, it can also create pressure, particularly for learners who are less confident or experienced. Similarly, technical issues can disrupt the learning process, undermining the effectiveness of gamified systems. These factors highlight the need for careful design and implementation to maximize the benefits of gamification.

Future research should explore the long-term impacts of gamification on language learning, particularly in diverse cultural and educational contexts. Longitudinal studies can provide insights into how gamification influences language proficiency and motivation over extended periods. Additionally, research should investigate the role of individual differences, such as learning styles and personality traits, in shaping the effectiveness of gamified systems.

Practitioners should focus on developing adaptable gamification frameworks that can be customized to meet the needs of different learners and contexts. This includes addressing potential challenges, such as competitive stress and technical issues, through thoughtful design and support mechanisms. By combining evidence-based strategies with innovative approaches, educators can harness the full potential of gamification to transform language education.

CONCLUSION

The study highlights that gamification significantly enhances language learning outcomes, particularly in terms of proficiency, motivation, and engagement. Learners exposed to gamified activities demonstrated a 25% greater improvement in language proficiency compared to those in traditional learning environments. Additionally, gamification was found to foster higher levels of intrinsic and extrinsic motivation, with participants describing the experience as enjoyable and goal-oriented. However, the research also identified challenges, such as competitive stress and technical issues,

which underscore the need for careful design and implementation of gamified systems. These findings provide a balanced perspective on the potential and limitations of gamification in language education.

This study contributes to the field by offering a comprehensive framework for integrating gamification into language learning. It bridges a critical gap in the literature by providing empirical evidence of gamification's impact on language proficiency, an area that has been underexplored in previous research. Methodologically, the study employs a mixed-methods approach, combining quantitative and qualitative data to offer a holistic understanding of gamification's effects. This approach not only validates the quantitative findings but also provides nuanced insights into learners' experiences and perceptions, enriching the theoretical and practical understanding of gamification in education.

The study has several limitations, including its relatively short duration and the use of a purposive sampling method, which may limit the generalizability of the findings. Additionally, the research focused on intermediate-level language learners, leaving room for further exploration of gamification's effectiveness across different proficiency levels and age groups. Future studies should address these limitations by conducting longitudinal research and expanding the sample to include diverse learner populations. Investigating the role of cultural and contextual factors in shaping the effectiveness of gamification could also provide valuable insights for designing adaptable and inclusive gamified systems.

REFERENCES

- Abdulgaki, S., Khasawneh, M. A. S., & Tashtoush, M. A. (2025). The effectiveness of gamified learning environments in promoting grammar mastery in Jordanian secondary school EFL learners. *International Journal of Innovative Research and Scientific Studies*, 8(2), 3375–3386. Scopus. <https://doi.org/10.53894/ijirss.v8i2.6013>
- Acuña, O. L., Santos Carvajal, D. M., Bolanos-Barbosa, A. D., Torres-Vanegas, J. D., Alvarez Solano, O. A., Cruz, J. C., & Reyes, L. H. (2025). Fostering technical proficiency and professional skills: A multifaceted PO-PBL strategy for unit operations education. *Education for Chemical Engineers*, 51, 64–78. Scopus. <https://doi.org/10.1016/j.ece.2025.01.001>
- Ai, Y., Hu, Y., & Zhao, W. (2025). Interactive learning: Harnessing technology to alleviate foreign language anxiety in foreign literature education. *Interactive Learning Environments*, 33(3), 2440–2459. Scopus. <https://doi.org/10.1080/10494820.2024.2409990>
- Alexander, C. H. C., Sivakumar, S., & Kumar, S. P. S. (2024). Gamification in CAD learning: A methodological approach for engineering curriculum. Dalam Nataraj C., Sivanesan S.K., Yong L.C., Cheong A.C.H., Perumal S.K.S., & Thiruchelvam V. (Ed.), *AIP Conf. Proc.* (Vol. 3161, Nomor 1). American Institute of Physics; Scopus. <https://doi.org/10.1063/5.0229644>
- Alkhawaldeh, M. A., & Khasawneh, M. A. S. (2024). Designing gamified assistive apps: A novel approach to motivating and supporting students with learning disabilities. *International Journal of Data and Network Science*, 8(1), 53–60. Scopus. <https://doi.org/10.5267/j.ijdns.2023.10.018>

- Arribathi, A. H., Awalia Rahmawati, F., Supriyono, I. A., Anggraini Santoso, N., & Audiah, S. (2024). Evaluating Gamified Platform for Enhancing Arabic Language Proficiency Using TAM. *Int. Conf. Creat. Commun. Innov. Technol., ICCIT*. 2024 3rd International Conference on Creative Communication and Innovative Technology, ICCIT 2024. Scopus. <https://doi.org/10.1109/ICCIT62134.2024.10701098>
- Cascella, M., Cascella, A., Monaco, F., & Shariff, M. N. (2023). Envisioning gamification in anesthesia, pain management, and critical care: Basic principles, integration of artificial intelligence, and simulation strategies. *Journal of Anesthesia, Analgesia and Critical Care*, 3(1). Scopus. <https://doi.org/10.1186/s44158-023-00118-2>
- Ciccarelli, S., Peña, D., Ferraro, F. V., Carlos Martinez-Santos, J., & Puertas, E. (2024). TRIP a-Bike: An Interactive Educational System for Learning English as a Second Language. *Proc. LACCEI Int. Multi-Conf. Eng. Educ. Technol.* Proceedings of the LACCEI international Multi-conference for Engineering, Education and Technology. Scopus. <https://doi.org/10.18687/LACCEI2024.1.1.1873>
- Fernández-Ortega, C., Trigueros, R., & Fernández, A. (2024). Frustration of basic psychological needs and emotions in communicative intent in English as a foreign language. *Porta Linguarum*, 2024-June(42), 197–214. Scopus. <https://doi.org/10.30827/portalin.vi42.29389>
- Gallo, V., Galarza, J., Játiva, S., Rivas, K., Quishpe, S., & Marcillo, F. (2023). Analysis of the usability of mobile applications and gamification as a method for teaching and learning English in Ecuador. *RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao*, 2023(Special issue E63), 65–80. Scopus.
- Gill, A. S., Irwin, D., Towey, D., & Zhang, Y. (2024). Mobile Microlearning to Scaffold Project-Based Learning Using ARCS Model: A Preliminary Study. Dalam Shahriar H., Ohsaki H., Sharmin M., Towey D., Majumder AKM.J.A., Hori Y., Yang J.-J., Takemoto M., Sakib N., Banno R., & Ahamed S.I. (Ed.), *Proc. - IEEE Annu. Comput., Softw., Appl. Conf., COMPSAC* (hlm. 411–420). Institute of Electrical and Electronics Engineers Inc.; Scopus. <https://doi.org/10.1109/COMPSAC61105.2024.00064>
- Ho, F. S. H., Wong, N., Li, A. W. C., & Lau, L. (2023). Enhancing language self-efficacy of EFL university students through experiential learning: A study of the learning league project. *Int. Conf. High. Educ. Adv.*, 1089–1096. Scopus. <https://doi.org/10.4995/HEAd23.2023.16219>
- Hromko, T., Vasylenko, O., Chepelyuk, N., & Hromko, Y. (2024). Digital Transformation of Linguistic Pedagogy. *Proc. Inter. Conf. Appl. Inno. IT*, 12(2), 45–55. Scopus. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85219184907&partnerID=40&md5=5f8244d14418e4e1220ca9a3e50b9911>
- Hsu, M.-H., & Chen, Y.-H. (2024). Personalized Medical Terminology Learning Game: Guess the Term. *Games for Health Journal*, 13(2), 84–92. Scopus. <https://doi.org/10.1089/g4h.2023.0054>
- Irfan, R. I., & Arifin, Y. (2025). Enhancing Foreign Speakers' Satisfaction in Learning Indonesian Language with a Gamified Multiplatform Approach. *Informatics*, 12(1). Scopus. <https://doi.org/10.3390/informatics12010011>
- Ismail, U. S., Makhtar, N. I., Chulan, M., & Ismail, N. (2023). A Model Framework for the Implementation of Gamification in Arabic Teaching in Malaysia. *Theory and Practice in Language Studies*, 13(11), 2800–2805. Scopus. <https://doi.org/10.17507/tpls.1311.09>

- Khamis, N., Yunus, M. M., & Mansor, A. Z. (2024). Exploring Language Learning Strategies of TESL Practicum Students Through a Phenomenological Lens for Enhancing Language Competency. *International Journal of Learning, Teaching and Educational Research*, 23(2), 436–460. Scopus. <https://doi.org/10.26803/ijlter.23.2.21>
- Levi, E. I. (2024). Technology in lifelong language learning. Dalam *Embrac. Technol. Adv. For Lifelong Learn.* (hlm. 253–277). IGI Global; Scopus. <https://doi.org/10.4018/979-8-3693-1410-4.ch012>
- Li, C., Fryer, L. K., & Chu, S. K. W. (2025). Utilising gamified formative assessment to support English language learning in schools: A scoping review. *Innovation in Language Learning and Teaching*, 19(2), 188–204. Scopus. <https://doi.org/10.1080/17501229.2024.2352789>
- Liu, L. (2025). Impact of AI gamification on EFL learning outcomes and nonlinear dynamic motivation: Comparing adaptive learning paths, conversational agents, and storytelling. *Education and Information Technologies*. Scopus. <https://doi.org/10.1007/s10639-024-13296-5>
- Magno, J. M., Indal, R. S., Chavez, J. V., Garil, B. A., & Delos Reyes, R. B. (2024). Alternative Teaching Strategies in Learning Filipino Language among Dominant English Speakers. *Forum for Linguistic Studies*, 6(4), 404–419. Scopus. <https://doi.org/10.30564/fls.v6i4.6742>
- Murray, A. K., Chen, I.-S. J., & Liu, Y.-T. (2024). Unlocking the Magic of Gamification for Preschool Language Learners: A Non-digital Approach to Boosting Reading Engagement at Home: 探究非數位遊戲對於提升幼兒居家閱讀之成效. *English Teaching and Learning*, 48(2), 155–188. Scopus. <https://doi.org/10.1007/s42321-024-00166-z>
- Nechifor, A. (2024). Gamified Romanian for Specific Purposes: A Journey to Engaged Language Acquisition. *Analele Universitatii Ovidius Constanta, Seria Filologie*, 35(2), 348–371. Scopus.
- Orak, S. D. (2025). An overview of the place of games and gamification in SLA from the global skills perspective: A narrative literature review. Dalam *Educ. Games: Enhancing learn. Through interact. Exp.* (hlm. 61–82). Nova Science Publishers Inc.; Scopus. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-86000225566&partnerID=40&md5=343aa71e6220f24248aa966d91908301>
- Qub’a, A. A., Al-Haj Eid, O. A., Hasan, G. A., & Herz, J. A. (2024). The Effect of Utilizing Gamification in Enhancing English Language Skills in University Settings. *World Journal of English Language*, 14(4), 428–436. Scopus. <https://doi.org/10.5430/wjel.v14n4p428>
- Riwayatiningsih, R., Prastikawati, E. F., Muchson, M., Haqiqi, F. N., Setyowati, S., & Kartiko, D. A. (2025). Empowering Higher-Order Thinking Skills in Writing through Gamification and Multimodal Learning within PBL. *Forum for Linguistic Studies*, 7(2), 385–398. Scopus. <https://doi.org/10.30564/fls.v7i2.8119>
- Roseni, E., & Muho, A. (2024). IMPACT OF GAMIFICATION AND INTERACTIVE LANGUAGE LEARNING PLATFORMS ON ENGAGEMENT AND PROFICIENCY IN ENGLISH LANGUAGE EDUCATION. *Journal of Education Culture and Society*, 15(2), 205–222. Scopus. <https://doi.org/10.15503/jecs2024.2.205.222>
- Sochol, R. D., & Fazelpour, M. (2024). An Exploration of Game-Based Learning in Enhancing Engineering, Design, and Robotics Education via”The Legend of Zelda: Tears of the Kingdom”. *ASEE Annu. Conf. Expos. Conf. Proc. ASEE Annual Conference and Exposition, Conference Proceedings*. Scopus.

- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85202046218&partnerID=40&md5=48d151fcd0a8f74056feb240d483d8a>
- Song, J., Wang, R., Wu, X., & Zhang, Z. (2025). Unboxing autonomous motivation, controlled motivation, and oral skills among EFL learners: Insights into gamification through the lens of broaden-and-build theory. *Learning and Motivation*, 90. Scopus. <https://doi.org/10.1016/j.lmot.2025.102110>
- Suryapranata, L. K. P., & Gozali, G. I. (2024). Enhancement of Indonesian Language Learning Motivation Using Trivia Game. *Proc. - Int. Conf. Technol. Innov. Its Appl., ICTIA*. Proceedings - 2024 2nd International Conference on Technology Innovation and Its Applications, ICTIA 2024. Scopus. <https://doi.org/10.1109/ICTIA61827.2024.10761062>
- Truong, M. T., & Dinh, H. N. (2024). Using Kahoot! To Teach English Vocabulary: Benefits, Drawbacks, and Actual Impacts from Students' Perspective. *CALL-EJ*, 25(2), 201–223. Scopus.
- Viteri, A. E. O., & Páez-Quinde, C. (2024). Technological Tools as a Motivational Strategy in English Language Learning among University. *IEEE Integr. STEM Educ. Conf., ISEC*. 2024 IEEE Integrated STEM Education Conference, ISEC 2024. Scopus. <https://doi.org/10.1109/ISEC61299.2024.10664884>
- Zhang, Z., & Crawford, J. (2024). EFL learners' motivation in a gamified formative assessment: The case of Quizizz. *Education and Information Technologies*, 29(5), 6217–6239. Scopus. <https://doi.org/10.1007/s10639-023-12034-7>
- Zhang, Z., & Huang, X. (2024). Exploring the impact of the adaptive gamified assessment on learners in blended learning. *Education and Information Technologies*, 29(16), 21869–21889. Scopus. <https://doi.org/10.1007/s10639-024-12708-w>
- Zubkov, A. (2023). Gamification in Teaching Foreign Languages to Economics Students: A Case Study. Dalam Bylieva D. & Nordmann A. (Ed.), *Lect. Notes Networks Syst.: Vol. 829 LNNS* (hlm. 297–313). Springer Science and Business Media Deutschland GmbH; Scopus. https://doi.org/10.1007/978-3-031-48016-4_21

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