

REFERENCE

- Acosta-Enriquez, B. G., Guzmán Valle, M. de los Á., Arbulú Ballesteros, M., Arbulú Castillo, J. C., Arbulu Perez Vargas, C. G., Torres, I. S., Silva León, P. M., & Saavedra Tirado, K. (2025). What is the influence of psychosocial factors on artificial intelligence appropriation in college students? *BMC Psychology*, 13(1), 1-15. <https://doi.org/10.1186/s40359-024-02328-x>
- Ahuerma, F. M. (2022). What is artificial intelligence? *International Journal of Research Publication and Reviews*, 3(12), 1947–1951. <https://doi.org/10.55248/gengpi.2023.4149>
- Alita, D., Putra, A. D., & Darwis, D. (2021). Analysis of classic assumption test and multiple linear regression coefficient test for employee structural office recommendation. *IJCCS (Indonesian Journal of Computing and Cybernetics Systems)*, 15(3), 295–306. <https://doi.org/10.22146/ijccs.65586>
- Ana, I. K. T. A., & Ratminingsih, N. M. (2012). Teaching English tenses to EFL learners: deductive or inductive? *International Journal for Cross-Disciplinary Subjects in Education*, 2(Special 2), 998–1004. <https://doi.org/10.20533/ijcdse.2042.6364.2012.0142>
- Azeem, A. (2018). Study of academic anxiety and academic achievement among secondary school students. *Journal Homepage: International Journal of Research in Social Sciences*, 8(3), 147–161.
- Khouya, B. Y. (2025). Gender differences in English language anxiety among Moroccan university students: A cross-sectional study. *American Journal of Human Psychology*, 3(1), 1–6. <https://doi.org/10.54536/ajhp.v3i1.3761>
- Bhandare, V. (2024). The role of artificial intelligence in learning and development. *International Journal of Scientific Research in Engineering and Management*, 08(05), 1–5. <https://doi.org/10.55041/ijsem34968>
- Bolívar-Cruz, A., & Verano-Tacoronte, D. (2025). Is anxiety affecting the adoption of ChatGPT in university teaching? A gender perspective. *Technology, Knowledge and Learning*, 1-20. <https://doi.org/10.1007/s10758-025-09830-0>
- Chan, C. K. Y., & Hu, W. (2023). Students' voices on generative AI: perceptions, benefits, and challenges in higher education. *International Journal of Educational Technology in Higher Education*, 1–18. <https://doi.org/10.1186/s41239-023-00411-8>
- Cislaghi, B., & Heise, L. (2020). Gender norms and social norms: Differences, similarities and why they matter in prevention science. *Sociology of Health and Illness*, 42(2), 407–422. <https://doi.org/10.1111/1467-9566.13008>
- Creswell, J. W., & Creswell, J. D. C. (2017). *Research design: Qualitative, quantitative, mix methods approaches* (5th ed.). SAGE Publications Inc.
- Csizer, K., & Albert, Á. (2024). Gender-related differences in the effects of motivation, self-efficacy, and emotions on autonomous use of technology in second language learning. *Asia-Pacific Education Researcher*, 33(4), 819–828.

<https://doi.org/10.1007/s40299-023-00808-z>

- Cunha, I., & Cadima, C. (2024). Active travel in the university setting: Assessing the effects of social behavior, socioeconomics, and spatial location. *Journal of Transport and Land Use*, 17(1), 707–730. <https://doi.org/10.5198/jtlu.2024.2473>
- Damayanti, K. D., & Santosa, M. H. (2024). The effect of prowritingaid writing tool on the writing skills of English as a foreign language (EFL) students: a systematic literature. *Indonesian Journal of Multidisciplinary Research Journal*, 4(2), 469–478. <https://doi.org/10.31004/joe.v6i2.5124>
- Davis, F. D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of information technology. *MIS Quarterly: Management Information Systems*, 13(3), 319–340. <https://doi.org/10.2307/249008>
- Dauba, J., & Dauba, J. G. (2024). Relationship between language learning anxiety and students' academic performance in English. *Article in International Research Journal of Modernization in Engineering Technology and Science*, 6(9), 332–349. <https://doi.org/10.56726/IRJMETS61390>
- Devineni, S. K. (2024). AI in data privacy and security. *International Journal of Artificial Intelligence & Machine Learning (IJAIML)*, 3(1), 35–49. https://doi.org/10.1007/979-8-8688-0461-8_9
- Dewi, K. S., Myartawan, I. P. N. W., Swari, N. K. T. A., & Sugihartini, N. (2020). Quizizz effect on students' grammar mastery in higher EFL classroom based mobile assisted language learning (MALL). *Language and Education Journal Undiksha*, 3(1), 15–23. <https://ejournal.unisbablitar.ac.id/index.php/josar/article/view/1448/975>
- Du, J., & Daniel, B. K. (2024). Transforming language education: A systematic review of AI-powered chatbots for English as a foreign language speaking practice. In *Computers and Education: Artificial Intelligence* (Vol. 6). Elsevier B.V. <https://doi.org/10.1016/j.caeai.2024.100230>
- Fajaryani, N., Failasofah, F., Abrar, M., Masbirorotni, M., & Septi Handayani, L. (2024). Gender differences in writing anxiety among EFL undergraduate students: a survey study at Universitas Jambi. *English Review: Journal of English Education*, 12(2), 667–674. <https://doi.org/10.25134/erjee.v12i2.8684>
- Fazal, N., Tahir, M. S., Chaudhary, M., & Abbasi, M. (2024). Effectiveness of AI integration into computer-assisted language learning (CALL) on student writing skills based on gender. *Pakistan Journal of Humanities and Social Sciences*, 12(1). <https://doi.org/10.52131/pjhss.2024.v12i1.1974>
- Field, A. (2013). Discovering statistics using IBM SPSS statistics (3th ed.). *SAGE Publications Ltd.*
- Fishstrom, S., Wang, H. H., Bhat, B. H., Daniel, J., Dille, J., Capin, P., & Vaughn, S. (2022). A meta-analysis of the effects of academic interventions on academic achievement and academic anxiety outcomes in elementary school children. *Journal of School Psychology*, 92, 265–284. <https://doi.org/10.1016/j.jsp.2022.03.011>

- Garland, R. (1991). The mid-point on a rating scale: Is it desirable? *Marketing Bulletin*, 2, 66–70. http://marketing-bulletin.massey.ac.nz/V2/MB_V2_N3_Garland.pdf
- Gasaymeh, A. M. M., Beirat, M. A., & Abu Qbeita, A. A. (2024). University students' insights of generative artificial intelligence (AI) writing tools. *Education Sciences*, 14(10). <https://doi.org/10.3390/educsci14101062>
- Ghanad, A. (2023). An overview of quantitative research methods. *International Journal of Multidisciplinary Research and Analysis*, 06(08), 3794–3803. <https://doi.org/10.47191/ijmra/v6-i8-52>
- Grebe, M., Franke, M. R., & Heinzl, A. (2023). Artificial intelligence: how leading companies define use cases, scale-up utilization, and realize value. *Informatik-Spektrum*, 46, 197–209. <https://doi.org/10.1007/s00287-023-01548-6>
- Gregory, R. J. (2015). Psychological testing: History, principles, and applications Boston, MA: Pearson. In Global Edition.
- Hirpa Tufa, A., Alene, A. D., Cole, S. M., Manda, J., Feleke, S., Abdoulaye, T., Chikoye, D., & Manyong, V. (2022). Gender differences in technology adoption and agricultural productivity: Evidence from Malawi. *World Development*, 159, 1–15. <https://doi.org/10.1016/j.worlddev.2022.106027>
- Hooda, M., Rana, C., Dahiya, O., Rizwan, A., & Hossain, M. S. (2022). Artificial intelligence for assessment and feedback to enhance student success in higher education. *Mathematical Problems in Engineering*, 2022. <https://doi.org/10.1155/2022/5215722>
- Hooda, M., & Saini, A. (2017). Academic anxiety: An overview. *Educational Quest: An Int. J. of Education and Applied Social Science*, 8(3), 807–810. <https://doi.org/10.5958/2230-7311.2017.00139.8>
- Horwitz, E. K., horwitz, M. B., & Cope, J. (1986). Foreign language classroom anxiety. *The Modern Language Journal*, 70(2), 125–132. <https://doi.org/10.1111/j.1540-4781.1986.tb05256.x>
- Hossan, D., Dato' Mansor, Z., & Jaharuddin, N. S. (2023). Research population and sampling in quantitative study. *International Journal of Business and Technopreneurship (IJBT)*, 13(3), 209–222. <https://doi.org/10.58915/ijbt.v13i3.263>
- Iddrisu, H. M., Iddrisu, S. A., & Aminu, B. (2025). Gender differences in the adoption, usage, and perceived effectiveness of AI writing tools. *International Journal of Educational Innovation and Research*, 4(1), 110–111. <https://doi.org/10.31949/ijeir.v4i1.11717>
- Istiqomah, W. (2024). Students' speaking anxiety and its effect on speaking performance based on their gender. *Retain: Journal of Research in English Language Teaching*, 12(02), 24–29.
- Jan, J., Alshare, K. A., & Lane, P. L. (2024). Hofstede's cultural dimensions in

- technology acceptance models: a meta-analysis. *Universal Access in the Information Society*, 23(2), 717–741. <https://doi.org/10.1007/s10209-022-00930-7>
- Jaya, S., & Susyla, D. (2024). Assessing students' perceptions of AI grammar and writing assistance tools: implications for academic writing instruction. In *Teaching English and Language Learning English Journal (TELLE)* (Vol. 04, Issue 03)
- Jomaa, N., Attamimi, R., & Al Mahri, M. (2024). Utilising artificial intelligence (AI) in vocabulary learning by EFL Omani students: the effect of age, gender, and level of study. *Forum for Linguistic Studies*, 6(5), 171–186. <https://doi.org/10.30564/fls.v6i5.6968>
- Kankaraš, M., & Capecchi, S. (2025). Neither agree nor disagree: use and misuse of the neutral response category in Likert-type scales. *Metron*, 83(1), 111–140. <https://doi.org/10.1007/s40300-024-00276-5>
- Kim, J., & Kim, E. (2022). Relationship between self-esteem and technological readiness: mediation effect of readiness for change and moderated mediation effect of gender in South Korean teachers. *International Journal of Environmental Research and Public Health*, 19(14), 1–11. <https://doi.org/10.3390/ijerph19148463>
- Koç, A., & Kanadlı, S. (2025). Effect of interactive learning environments on learning outcomes in science education: a network meta-analysis. *Journal of Science Education and Technology*. <https://doi.org/10.1007/s10956-025-10202-7>
- Kristiawan, D. Y., Basher, K., & Pradana, D. A. (2024). Artificial intelligence in English language learning : A systematic review of AI tools , applications , and pedagogical outcomes. *The Art of Teaching English as a Foreign Language*, 5(2), 207–218.
- Lalira, J. E., Yopie A. T. Pangemanan, Jane E. Scipio, Sjerly Lumi, Theo Ch. Merentek, & Vivi Nansy Tumuju. (2024). Evaluating the Impact of AI Tools on Grammar Mastery: A Comparative Study of Learning Outcomes. *Voices of English Language Education Society*, 8(3). <https://doi.org/10.29408/veles.v8i3.27856>
- Leddy, M., & McCreanor, N. (2024). The potential utilisation of artificial intelligence (AI) in enterprises. *International Journal of Innovation and Economic Development*, 9(6), 7–21. <https://doi.org/10.34190/ecie.18.1.1720c>
- Li & Thien (2025) Li, H., & Thien, L. M. (2025). Artificial intelligence (AI) anxiety and usage intention in English teaching: Insights from Chinese EFL pre-service teachers. *Asian Education and Development Studies*, 14(5), 1022–1035. <https://doi.org/10.1108/AEDS-02-2025-0088>
- Madhu, N. Y., Latha, P. H., & Savitha, N. (2024). Revolutionizing education : Harnessing AI for personalized learning pathways and student success. *International Journal for Multidisciplinary Research (IJFMR)*, 6(5), 1–11.
- Ma, Q., & Wang, L. (2024). Online technologies for language learning and teaching:

- innovations, practices and perceptions from students and teachers. *Journal of China Computer-Assisted Language Learning*, 4(1), 1–5. <https://doi.org/10.1515/jccall-2024-0002>
- Maryam, W. S., Santosa, M. H., & Dewi, K. S. (2025). (Deepl) on eleventh-grade students ' writing. *Journal of English Pendagogy, Linguistics, Literature, and Teaching*, 13(01), 200–210.
- Møgelvang, A., Bjelland, C., Grassini, S., & Ludvigsen, K. (2024). Gender differences in the use of generative artificial intelligence chatbots in higher education: characteristics and consequences. *Education Sciences*, 14(12). <https://doi.org/10.3390/educsci14121363>
- Noerviany. (2023). The correlation between gender differences and English learning motivation of the tenth grade students at SMK Negeri 1 Dampal Selatan. State Islamic University Datokarama Palu.
- Normawati, A. (2023). How EFL learners perceive grammar in speaking and writing. *Journal of English Educational Study (JEES)*, 6(1), 23–30. <https://doi.org/10.31932/jees.v6i1.2208>
- Novita, R. (2023). The influence of beliefs and anxiety in using artificial intelligence towards readiness to change with high performance work systems as a moderating variable. *Human Resources Management Studies*. <http://jkmsdm.ppj.unp.ac.id/index.php/hrms>
- Orser, B. J., & Riding, A. (2018). The influence of gender on the adoption of technology among SMEs. *International Journal of Entrepreneurship and Small Business*, 10, 1–18. <https://doi.org/10.1504/IJESB.2018.090341>
- Pallant, J. (2010). SPSS survival manual: A step by step guide to data analysis using SPSS (4th ed.). *McGraw-Hill Education*.
- Paramarta, I. M. S. (2022). Word formations in social media communication of the students of english department. *Uniqbu Journal of Social Sciences (UJSS)*, 3(1), 84–98.
- Parasuraman, A. (2000). Technology readiness index (TRI): A multipleitem scale to measure readiness to embrace new technologies. *Journal Of Service Research*, 2(4), 307–320.
- Pimentel, J. L. (2019). Some biases in Likert scaling usage and its correction. *International Journal of Sciences: Basic and Applied Research*, 45(1), 183-191.
- Pratiwi, N., Efendy, A. G., Rini, H. C., & Ahmed, N. A. (2024). Speaking practice using chatgpt's voice conversation: a review on potentials and concerns. *Journal of Language Intelligence and Culture*, 6(1), 59–72. <https://doi.org/10.35719/jlic.v6i1.149>
- Putra, I. K. J. P., Padmadewi, N. N., & Ratminingsih, N. M. (2024). Student's writing anxiety in learning English as a foreign language. *The Art of Teaching English as a Foreign Language*, 5(1), 11–20.

- Rahmawati, E. M., Ahman, Setiawati, Rukman, Z. H., & Rahayu, D. D. (2024). Academic anxiety among college students reviewed from gender, age, and academic year perspective. *G-Couns: Jurnal Bimbingan Dan Konseling*, 9(1), 603–618. <https://doi.org/10.31316/gcouns.v9i1.6124>
- Ratminingsih, N. M., Santosa, M. H., & Ana, I. K. T. A. (2022). Students' errors in e-learning discussion in TEFL course and their responses. *Indonesian Journal Of Educational Research and Review*, 5(3), 564–576. <https://doi.org/10.23887/ijerr.v5i3.52718>
- Razak, N. A., Yassin, A. A., & Mohamad Maasum, T. N. R. B. T. (2017). Effect of foreign language anxiety on gender and academic achievement among Yemeni university EFL students. *English Language Teaching*, 10(2), 73. <https://doi.org/10.5539/elt.v10n2p73>
- Risman, B. J. (2004). Gender as a social structure: Theory wrestling with activism. In *Gender and Society* (Vol. 18, Issue 4, pp. 429–450). SAGE Publications Inc. <https://doi.org/10.1177/0891243204265349>
- Rukiati, E., Wicaksono, J. A., Taufan, G. T., & Suharsono, D. D. (2023). AI on learning English: application, benefit, and threat. *Journal of Language, Communication, and Tourism*, 1(2), 32–40. <https://doi.org/10.25047/jlct.v1i2.3967>
- Santosa, M. H. (2025). Investigating university students' and lecturers' anxiety in the AI-laden English online learning. *Jurnal pendidikan dan pengajaran*, 58(2), 416–427. <https://doi.org/10.23887/jpp.v58i2.90847>
- Santosa, M. H., Wulandari, N. L. P. N., & Mahendrayana, G. (2023). Exploring students' and lecturers' anxiety in learning English during emergency remote teaching in a public university in North Bali. *LLT Journal: Journal on Language and Language Teaching*, 26(2), 429–439. <https://doi.org/10.24071/llt.v26i2.3760>
- Sazali, A. R., Ammar, A., Nurfiza, S., & Alahdad, A. (2024). Exploring the relationship between variables in fear of learning a foreign language. *Asian Journal of Research in Education and Social Sciences*, 6(1), 89–103. <https://doi.org/10.55057/ajress.2024.6.1.8>
- Schiavo, G., Businaro, S., & Zancanaro, M. (2024). Comprehension, apprehension, and acceptance: Understanding the influence of literacy and anxiety on acceptance of artificial Intelligence. *Technology in Society*, 77, 102537.
- Shang, Y., & Ma, L. (2024). Classroom anxiety, learning motivation, and English achievement of Chinese college students: The mediating role of self-efficacy. *Acta Psychologica*, 251, 1–9. <https://doi.org/10.1016/j.actpsy.2024.104550>
- Sharma, A. V. N. S., Naik, M. S., Radhakrishnan, S., & Sharma, A. (2023). Personalized learning paths: adapting education with ai-driven curriculum. *European Economic Letters*, 14(1), 31–40. <https://doi.org/10.52783/eel.v14i1.993>
- Shomotova, A., Husain, S., Elsayary, A., Das, A., & Muschert, G. (2024). The impact

- of socio-cultural and demographic factors on gen ai accessibility, usability, and applicability in the UAE. *Russian Sociological Review*, 23(4), 140–172. <https://doi.org/10.17323/1728-192x-2024-4-140-172>
- Shrivastava, A., Pandey, A., Singh, N., Srivastava, S., & Srivastava, M. (2024). Artificial intelligence (AI): evolution , methodologies , and applications. *International Journal For Research in Applied Science and Engineering Technology*, 12(5501–5505).
- Sun, Y., Wang, X., Zhang, C., & Zuo, M. (2023). Multiple regression: methodology and applications. *Highlights in Science, Engineering and Technology*, 49, 542–548. <https://doi.org/10.54097/hset.v49i.8611>
- Suntharalingam, H. (2024). Enhancing digital learning outcomes through the application of artificial intelligence: a comprehensive review. *International Journal of Innovative Science and Research Technology (IJISRT)*, 9(4), 718–727. <https://doi.org/10.38124/ijisrt/ijisrt24apr530>
- Taherdoost, H. (2022). What are different research approaches? Comprehensive review of qualitative, quantitative, and mixed method research, their applications, types, and limitations. *Journal of Management Science & Engineering Research*, 5(1), 53–63. <https://doi.org/10.30564/jmsr.v5i1.4538>
- Tannenbaum, C., Greaves, L., & Graham, I. D. (2016). Why sex and gender matter in implementation research Economic, social, and ethical factors affecting the implementation of research. *BMC Medical Research Methodology*, 16(1). <https://doi.org/10.1186/s12874-016-0247-7>
- Tran, T. T. T. (2012). A review of Horwitz, Horwitz and Cope’s theory of foreign language anxiety and the challenges to the theory. *English Language Teaching*, 5(1), 69–75. <https://doi.org/10.5539/elt.v5n1p69>
- Wang, B. (2024). Exploring the potential of artificial intelligence in English education. In *International Conference on Engineering Management, Information Technology and Intelligence*. <https://doi.org/10.47576/2949-1878.2024.4.4.011>
- Wang, Y., Zhang, T., Yao, L., & Seedhouse, P. (2025). A scoping review of empirical studies on generative artificial intelligence in language education. *Innovation in Language Learning and Teaching*, 1–28. <https://doi.org/10.1080/17501229.2025.2509759>
- Waziana, W., Andewi, W., Hastomo, T., & Hasbi, M. (2024). Students’ perceptions of the impact of ai chatbots on vocabulary and grammar in efl writing. *REGISTER JOURNAL*, 17(02), 352–382. <https://doi.org/10.18326/rgt.v17i2.352-382>
- Wen et al. (2024) Wen, F., Li, Y., Zhou, Y., An, X., & Zou, Q. (2024). A study on the relationship between AI anxiety and AI behavioral intention of secondary school students learning English as a foreign language. *Journal of Educational Technology Development and Exchange*, 17(1), 130–154. <https://doi.org/10.18785/jetde.1701.07>

- Xiao, F., Zhu, S., & Wen, X. (2025). Exploring the landscape of generative AI (ChatGPT)-powered writing instruction in English as a foreign language education: a scoping review. In *ECNU Review of Education*. SAGE Publications Ltd. <https://doi.org/10.1177/20965311241310881>
- Yaling, G., Ye, W., & Jun, T. (2024). The influence of academic emotions on academic performance in the context of artificial intelligence. *Journal of Interdisciplinary Insights*, 2(3), 57–63. <https://doi.org/10.5281/zenodo.13852079>
- Zahroh, F. (2016). *Pengaruh gender terhadap motivasi memilih sekolah dan prestasi belajar*.
- Zainuddin, N. (2023). Technology enhanced language learning research trends and practices: a systematic review (2020-2022). *Technology Enhanced Language Learning Research Trends and Practices: A Systematic Review*, 21(2), 69–79. www.ejel.org
- Zhai, C., Wibowo, S., & Li, L. D. (2024). The effects of over-reliance on AI dialogue systems on students' cognitive abilities: a systematic review. *Smart Learning Environments*, 11(1). <https://doi.org/10.1186/s40561-024-00316-7>
- Zhang, S., & Liu, X. (2025). Learner emotions in AI-assisted English as a second/foreign language learning: A systematic review of empirical studies. *Frontiers in Psychology*, 16, 1652806. <https://doi.org/10.3389/fpsyg.2025.1652806>
- Zhang, S., Zhao, X., Zhou, T., & Kim, J. H. (2024). Do you have AI dependency? The roles of academic self-efficacy, academic stress, and performance expectations on problematic AI usage behavior. *International Journal of Educational Technology in Higher Education*, 21(1). <https://doi.org/10.1186/s41239-024-00467-0>
- Zhou, J. (2025). The exploration of effects of anxiety, motivation and gender on students' academic performance. <https://doi.org/10.54254/2753-7048/85/2025.21100>