

A Mixed Methods Research of Pre-Service Teachers' Perceptions about the Benefits of Wiki-Based Tasks and Discussion Boards

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Abstract. The aim of the research was to explore pre-service teachers' perspectives towards the use of wikis and discussion boards to improve writing skills and promote collaboration. A total of 358 pre-service teachers, enrolled in the subject English I, participated in it. They ranged in age from 20 to 58. We adopted a mixed methods research approach to integrate results and carry out a combined discussion that allowed making inferences to understand better and to have a broader vision of the phenomenon. The data analysis revealed the impact of the e-activities on the participants' confidence in English. They emphasized the opportunities afforded by the wikis to promote individual and cooperative learning, and by discussion boards to communicate. In our research, we demonstrated that the use of a mixed methods research enhanced the validity and reliability of the data, and added rigor to researches in technology and second language.

Keywords: English as L2, Wiki-Based Tasks, Discussion Boards, Mixed Methods Research.

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References

1. Anguera, M.T.: Metodologías cualitativas: características, procesos y aplicaciones. In: Verdugo. M.A., et al. (coords.) Metodología en la investigación sobre discapacidad. Introducción al uso de las ecuaciones estructurales, pp. 141--155. Publicaciones del INICO, Salamanca (2008).
2. Arnold, N. et al.: Collaboration or Cooperation? Analyzing Group Dynamics and Revision Processes in Wikis. CALICO Journal, 29, 431--448 (2012).
3. Attride-Stirling, J.: Thematic networks: An analytic tool for qualitative research. Qualitative Research, 1, 385--405 (2001).
4. Aydin, S.: Wikis as a Tool for Collaborative Learning: Implications for Literacy, Language Education and Multilingualism. Sustainable Multilingualism. 5, 207--236 (2014).



5. Bryman, A.: Quality criteria for quantitative, qualitative and mixed methods research: A view from social policy. *International Journal Social Research Methodology*, 11, 261--276 (2008).
6. Coleman, H., Unrau, Y. A.: Qualitative Data Analysis. In: Grinnell, R. M., Unrau, Y. A. (eds.) *Social Work: Research and Evaluation. Foundations of Evidence-Based Practice*, pp. 447--464. Oxford University Press, New York (2010).
7. Delgado, C.: *Viajando a Ítaca por los mares cuantitativos, manual de ruta para investigar en grado y en postgrado*. Amaru, Salamanca (2014).
8. Farabaugh, R.: The isle is full of noises: Using Wiki software to establish a discourse community in a Shakespeare classroom. *Language Awareness*, 16, 41--56 (2007).
9. Fitze, M.: Discourse and Participation in ESL face-to-face and written electronic conferences. *Language Learning & Technology*, 10, 67--86 (2006).
10. Franco, C. P.: Using Wiki-based Peer-Correction to Develop Writing Skills of Brazilian EFL Learners. *Novitas-ROYAL*, 2, 49--59 (2008).
11. Hernández, R., Fernández, C., Baptista, P.: *Metodología de la investigación*. McGraw Hill, México (2014).
12. Kessler, G., Bikowski, D.: Developing Collaborative Autonomous Learning Abilities in Computer Mediated Language Learning: Attention to Meaning among Students in wiki space. *Computer Assisted Language Learning*, 23, 41--58 (2010).
13. Kol, S., & Schcolnik, M.: Asynchronous Forums in EAP: Assessment Issues. *Language Learning & Technology*, 12, 49--70 (2008).
14. Kovacic, A., Bubas, G., & Zlatovic, M.: E-tivities with a wiki: Innovative Teaching of English as a Foreign Language, 1--13 (2008).
15. Lado, R.: *Language Testing: Writing in a Foreign Language*. Longman, London (2000).
16. Mak, B., & Coniam, D.: Using Wikis to enhance and develop writing skills among secondary school students in Hong Kong. *System. An International Journal of Educational Technology and Applied Linguistics*, 36, 437--455 (2008).
17. Miles, M. B., Huberman, A.: *Qualitative Data Analysis: An Expanded Sourcebook*. SAGE, Newbury Park, CA (1994).
18. Miyazoe, T., Anderson, T.: Learning Outcomes and Students' Perceptions of Online Writing: Simultaneous Implementation of a Forum, Blog, and Wiki in an EFL Blended Learning Setting. *System*, 38, 2 (Sept. 2010), 185--199 (2010).
19. Nielsen, B.: Students' Perceptions and Learning Outcomes of Online Writing Using Discussion Boards. *The Jaltcalljournal*, 9, 131-147 (2013).
20. Nunan, D.: *Designing Tasks for the Communicative Classroom*. Cambridge University Press, Cambridge (1989).
21. Pinto-Llorente, A. M., Sánchez-Gómez, M. C., and García-Peñalvo, F. J.: To Be or Not to Be Successful? That Does Not Only Depend on Technology, But Also on Human Factors. *Journal of Cases on Information Technology*, 17, 51-69 (2015)
22. Pinto-Llorente, A. M., et al.: Students' Perceptions and Attitudes Towards Asynchronous Technological Tools in Blended-Learning Training to Improve Grammatical Competence in English as a Second Language. *Computers in Human Behavior*. In Press (2016).
23. Pressley, M.: What should Comprehension Instruction Be the Instruction of? In: Kamil, M., Mosenthal, P., Pearson, P. D., Barr, R. (eds.) *Handbook of reading research*, pp. 545--561. Lawrence Erlbaum, Mahwah, NJ (2000).
24. Sánchez-Gómez, M. C.: La dicotomía cualitativo-cuantitativo: posibilidades de integración y diseños mixtos. *Campo Abierto. Vol. monográfico*, pp. 11--30 (2015).

25. Schellens, T., Van Keer, H., De Wever, B., & Valcke, M.: Scripting by Assigning Roles: Does it Improve Knowledge Construction in Asynchronous Discussion Groups? *International Journal of Computer-Supported Collaborative Learning*. 2, 225-246 (2007).
26. Twu, H.: A predictive study of Wiki interaction: Can attitude toward Wiki predict Wiki interaction in High-Context Cultures groups? *Journal of Educational Technology Development and Exchange*, 3, 57--68 (2010).
27. Usó, E., Martínez, A.: *Current Trends in the Development and Teaching of the Four Language Skills*. Mouton de Gruyter, Berlin (2006).
28. Wibeck, V., Dahlgren, M.A. and Oberg, G.: Learning in Focus Groups: An Analytical Dimension for Enhancing Focus Group Research. *Qualitative Research* 7, 249-67 (2007).
29. Wichadee, S.: Improving Students' Summary Writing Ability through and Conventional Face-to-Face Group. *The Turkish Online Journal of Educational Technology*. 12, 107-116 (2013).
30. Woolley, G.: *Reading Comprehension: Assisting Children with Learning Difficulties*. Springer, New York (2011).

