Lourenço-Gomes; Pilati, E.; Castro, A. C. (2022) "What's in an answer?": Insights into the decision-making process during the performance of language tasks in a classroom setting. 4th International Conference on Language Education and Research. Thessaloniki, Greece: 2022 October 01-02.

"What's in an answer?": Insights into the decision-making process during the performance of language tasks in a classroom setting

Maria do Carmo Lourenço-Gomes¹, Eloisa Pilati², Ana Carolina de Castro²

¹University of Minho, Portugal ²University of Brasília, Brazil

Abstract

We present the results of an exploratory study involving 48 Brazilian high school students between the ages of 15 and 26 (M=16.62, SD=1.60). Questionnaires were administered to assess the impact of two grammar instructional strategies on learning using a pretest-posttest control-group design. The questionnaires were implemented in a web-based tool that provides measures on the degree of confidence and hesitation in the responses, which were used to study the decision-making process during the performance of language tasks.

Summary

This contribution aims to illustrate how psycholinguistic research procedures can be applied to the classroom setting. We present the results of an exploratory study involving 48 Brazilian high school students between the ages of 15 and 26 (M=16.62, SD=1.60). The students were administered questionnaires to assess the impact of two grammar instructional strategies on learning using a pretest-posttest control-group design (Abbuhl et al., 2013; Christensen et al., 2015). The questionnaires were implemented in a web-based tool (Lourenço-Gomes, 2018) that records (1) the responses, (2) any changes in responses, (3) how many times they are changed, and the time spent on (4) reading the stimuli, (5) marking the responses, and (6) submitting them before moving on to the next question. These indicators, which can reflect the degree of confidence and hesitation in the responses, were used to study the decision-making process (Dotan et al., 2018; Grimaldi et al., 2015) during the performance of language tasks. The procedures, which are low-cost and simple to implement, aim to improve monitoring and assessment of the learning process while making the results more visible to teachers and students (Hattie 2017; Maia 2022; Pilati et al. forthcoming).

References

- Abbuhl, R., Gass, S., Mackey, A. (2015). Experimental research design. In: Podesva, R. J., Sharma, D. (Eds.). *Research methods in linguistics*. Cambridge University Press.
- Christensen, L. B., Johnson, R: B., Turner, L. A. (2015). *Research methods, design, and analysis*. 12th Edition. Pearson Education.
- Dotan, D., Meyniel, F., Dehaene, S. (2018). On-line confidence monitoring during decision making. *Cognition*, 171, 112-21. https://doi.org/10.1016/j.cognition.2017.11.001
- Grimaldi, P., Lau, H., & Basso, M. A. (2015). There are things that we know that we know, and there are things that we do not know we do not know: Confidence in decision-making. *Neuroscience & Biobehavioral Reviews*, 55, 88-97. https://doi.org/10.1016/j.neubiorev.2015.04.006

Hattie, J. (2017) Aprendizagem visível para professores: como maximizar o impacto da aprendizagem. Penso.

- Lourenço-Gomes, M. C. (2018) Assessing participants' actions and time in performing acceptability judgment tasks through a dedicated web-based application. Project funded by Fundação para Ciência e a Tecnologia (FCT-CEECIND/04331/2017). Institute of Arts and Humanities/Center for Humanistic Studies. University of Minho, Portugal. Starting in 2019-05-02.
- Maia, M. (2022). Eye tracking sentences in language education. *Diacrítica*, 36(1), 6–36. https://doi.org/10.21814/diacritica.739
- Pilati, E., Lourenço-Gomes, M. C., Castro, A. C. (forthcoming). Educação em língua materna, Teoria Gerativa e Psicolinguística [Mother tongue education, generative theory and Psycholinguistics]. In Maia, M. (Org.) *Psicolinguística: Diversidades, interfaces e aplicações*. Contexto.