

# Studies in the Expertise Reversal Effect in Teaching Foreign Language Listening

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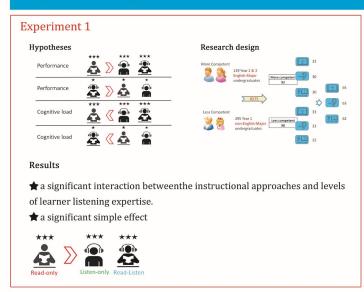
### Introduction

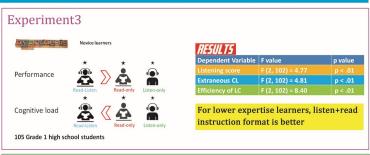
- Listening, as a major source of input, plays a pivotal role in language acquisition. However, listening is a complicated cognitive skill. Hulstijn (2007) commented that listening was 'the most implicit and least explicit of the four language skills' (p. 711).
- Because of the transient nature of auditory information and the limited capacity and short duration of working memory when dealing with novel information, learners of a foreign language (FL) usually have a painful experience with listening (Graham, 2006). FL (foreign language) learners with different levels of proficiency may encounter different types of difficulties in their listening learning (Goh, 2000).
- The major implication of this effect is the need to alter the instructional methods according to the levels of learner expertise. Evidence for the expertise reversal effect initially came from research in technical and scientific domains (e.g. Homer & Plass, 2010; Kalyuga etal., 2003; Khacharem, Zoudji, Spanjers, & Kalyuga, 2014), and more recently from research in the domain of language acquisition, particularly re-ading and writing (e.g.Kalyuga, Law, & Lee, 2013; Oksa, Kalyuga, & Chandler, 2010). However, there has been a paucity of research investigating this effect in the realm of learning second language listening skills...

#### Research aims

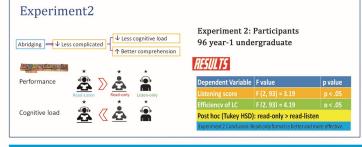
- The primary concern of this study is to explore whether there is an interaction between levels of learners expertise and instructional formats in learning listening skills in a foreign language.
- The study also aims to investigate the transient information effect in learning listening skills in a foreign language.

## **Empirical investigations**









#### General conclusion

- ★There is an interaction between the level of expertise and the effectiveness of instructional formats.
- ★ Read-only approach could be more effective for more expert learners, and read-and-listen could be more beneficial for novice learners.

# Major references

 $Goh, C.\ (2000).\ A\ cognitive\ perspective\ on\ language\ learners'\ listening\ comprehension\ problems.\ System,\ 28,\ 55-75.$ 

Graham, S. (2006). Listening comprehension: The learners' perspective. System, 34, 165-182.

Homer, B., & Plass, J. (2010). Expertise reversal for iconic representations in science visualizations. Instructional Science, 38, 259-276.

Hulstijn, J. (2007). Psycholinguistic perspective on second language acquisition. In J. Cummins & C. Davison (Eds.), International Handbook of English Language Teaching (Vol. 11, pp. 701-713). New York: Springer.

Kalyuga, S., Ayres, P., Chandler, P., & Sweller, J. (2003). The Expertise Reversal Effect. Educational Psychologist, 38, 23-31.

Kalyuga, S., Law, Y., & Lee, C. (2013). Expertise reversal effect in reading Chinese texts with added causal words. Instructional Science, 41, 481-497.

Khacharem, A., Zoudji, B., Spanjers, I., & Kalyuga, S. (2014). Improving learning from animated soccer scenes: Evidence for the expertise reversal effect. Computers in Human Behavior, 35, 339-349.

Oksa, A., Kalyuga, S., & Chandler, P. (2010). Expertise reversal effect in using explanatory notes for readers of shakespearean text. Instructional Science, 38(3), 217-236.