

## Relationship between Right Brain and Left Brain Dominance and Intonation Learning

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**Abstract :** The aim of this study was to investigate the relationship between hemispheric dominance and intonation learning of Iranian EFL students. In order to gain this goal, 52 female students from three levels of beginner, elementary and intermediate in Paradise Institute, and 18 male university students at Bu-Ali Sina University constituted the sample. In order to assist students learn the correct way of applying intonation to their everyday speech, the study proposed an interactive approach and provided students with visual aid through which they were able to see the intonation pattern on computer screen using 'Speech Analyzer' software. This software was also used to record subjects' voice and compare them with the original intonation pattern. Edinburgh Handedness Questionnaire (EHD), which ranges from -100 for strong left-handedness to +100 for strong right-handedness was used to indicate the hemispheric dominance of each student. The result of an independent sample t-test indicated that girls learned intonation pattern better than boys, and that right brained students significantly outperformed the left brained ones. Using one-way ANOVA, a significant difference between three proficiency levels was also found. The posthoc Scheffer test showed that the exact difference was between intermediate and elementary, and intermediate and beginner levels, but no significant difference was observed between elementary and beginner levels. The findings of the study might provide researchers with some helpful implications and useful directions for future investigation into the domain of the relationship between mind and second language learning.

**Keywords :** intonation, hemispheric dominance, visual aid, language learning, second language learning

**Conference Title :** ICLL 2015 : International Conference on Language Learning

**Conference Location :** Istanbul, Türkiye

**Conference Dates :** January 26-27, 2015