

THE EFFECTIVENESS OF ENGLISH-SUBTITLED VIDEOS IN ENHANCING SPEAKING, LISTENING AND VOCABULARY SKILLS: A META-ANALYSIS

¹Ita Usmi Oktapiani, ^{1*}Ilham, ¹Humaira, ¹Fauzi Bafadal,

²Mosunmola Adebayo, ³Parima Fasih

¹English Education Department, Faculty of Teacher Training and Education, Universitas Muhammadiyah Mataram, Indonesia

²English Language Department, University of Africa, Bayelsa State, Nigeria

³English Applied Linguistics Department, Eötvös Loránd University, Budapest, Hungary

Corresponding Author Email: ilham.ummatarem@gmail.com

Article Info	Abstract
Article History Received: October 2023 Revised: December 2023 Published: January 2024	<i>English-subtitled videos are a popular and accessible form of multimedia that can enhance language learning by providing authentic input and scaffolding comprehension. Therefore, This study aims to assess the effectiveness of English-subtitled videos as a learning tool for enhancing speaking, listening, and vocabulary skills among language learners. A total of 87 eligible studies were included in the analysis. The results of our analysis, conducted using JASP software simulation, indicate a statistically significant impact of English-subtitled videos on language learning, accounting for 59% of the variance, placing it in the Moderate category of significance. Specifically, the effect size values for speaking, listening, and vocabulary were 0.64, 0.59, and 0.55, respectively, highlighting their positive influence. Furthermore, the present research revealed that studies published in 2022 exhibited the highest effect size, with an estimated value of 0.771, underscoring the growing relevance of this instructional approach in recent years. Additionally, when considering the number of participants, studies with fewer than 40 participants demonstrated the highest effect, with an estimated value of 0.534. This suggests that English-subtitled videos are particularly well-suited for improving speaking skills, especially in smaller sample sizes. These findings offer valuable insights for educators and learners seeking effective multimedia tools to develop language proficiency.</i>
Keywords English-subtitled video; Speaking; Listening; Vocabulary;	
How to cite: Oktapiani, I.U., Ilham, I., Humaira, H., Bafadal, F., Adebayo, M., & Fasih, P. (2024). The Effectiveness of English-Subtitled Videos in Enhancing Speaking, Listening and Vocabulary Skills: A Meta-Analysis, <i>JOLLT Journal of Languages and Language Teaching</i> , 12(1), pp. 56-71. DOI: https://dx.doi.org/10.33394/joltt.v12i1.9501	

INTRODUCTION

In education, learning English is a crucial issue (Ebrahimi et al., 2018). Effective communication in both a native language and a global language like English is essential at the international level (Liando et al., 2018). Speaking is one of the four language skills that include using oral communication to convey ideas, feelings and information (Sari & Apriani, 2020). Kinasih & Olivia (2022) state that public speaking is a language skill that is valuable to develop because it is crucial to communication. Speaking is an interactive process of constructing meaning that involves producing, receiving and processing information (Khadidja & Manar, 2018).

In addition to speaking skills, listening skills are important in language learning. According to Alabsi (2020), listening comprehension is not only about hearing what is being said but also involves understanding and making sense of the spoken language. It is

impossible to overstate how crucial listening abilities are for learning a foreign language (Fernando et al., 2023). Furthermore, the success of L2 acquisition depends on listening to L2 input (Alzamil, 2022). However, speaking and listening skills require mastery of vocabulary (Ratnaningsih & Gumindari, 2022). Vocabulary is also important for people to communicate and express their ideas through language (Alharthi, 2020). To learn English effectively, students must understand that it covers macro skills, where two of them are speaking and listening, which is impossible to learn without vocabulary since it significantly impacts the skills mentioned above (Rosales, 2019).

This research concerns an English-subtitled video on learning speaking, listening and vocabulary. Many EFL learners use English videos as a way to access real and interesting language input. They can enhance their speaking, listening, and vocabulary skills by listening to different voices, situations, and words. However, the use of English videos for language learning is influenced by various factors, such as the kind and quality of the videos, the level and interest of the learners, and the presence and use of subtitles. The use of subtitle videos in language learning has several benefits, including helping students learn how to pronounce new words, making it easier for them to follow the storyline of the video (Hwang et al., 2019), improving their word recognition abilities (Altun & Hussein, 2022), reinforcing their understanding of English expressions that are context-bound, aiding in the acquisition of new vocabulary and improving their concentration in the lines that follow (Fikri et al., 2021).

The English subtitles in videos, such as movies, can help students expand their vocabulary and improve their speaking abilities by identifying the words being said by the actors (Megawati & Nuroh, 2018; Miranda & Wahyudin, 2023; Rahmawanti et al., 2021). Additionally, the combination of aural, visual, and textual mediums makes watching English-subtitled video one of the richest ways to present authentic input (Napikul et al., 2018). Moreover Okar & Shahidy (2019) added that the most effective language-learning method is watching content with subtitles. As a part of the learning process, video subtitles can allow students to understand concepts more deeply and improve their language comprehension while also honing their listening skills (Timilsina, 2022).

The use of English-subtitled videos (movies, TV shows, YouTube and so on) in language learning has been widely practiced, especially in improving speaking skills (Fitriyeni, 2020; Rachmijati et al., 2019; Valizadeh, 2021), listening skills (Andi & Darvishi, 2019; Metruk, 2018; Pudjiati & Fitria, 2022) and vocabulary (Dizon & Gayed, 2021; Mazahery et al., 2021; Sadiku, 2018). Bostanci, (2022), states that watching films with subtitles intensively affected ESL students' vocabulary knowledge. Chen et al., (2021) argued that such instruction significantly enhanced learning attitudes to English speaking. Furthermore, Azizah & Yaumi (2018), in their research with a total of 24 students, found that using subtitled movies significantly impact student's listening motivation. The practice of English-subtitled video-based speaking, listening and vocabulary learning media at Junior High School level has been widely conducted (Audina & Suminar, 2018; Bahtiar, 2023; Lestari, 2019; Mansouri & Grib, 2020; Megawati & Nuroh, 2018; Nuraeni et al., 2017; Peters, 2019; Pujadas & Muñoz, 2019). Audina & Suminar, (2018) conducted research at the Junior High School level which discussed the influence of subtitles in short movies on students' listening comprehension with a total of 60 students and obtained the results that English subtitled video-based listening skills learning media has a significant impact with a t-count of 2,268.

In addition, learning media for speaking, listening and vocabulary based on English-subtitled videos have also been done at Senior High School level (Abidin & Ngadiman, 2021; Matondang & Ashari, 2019; Rawanita, 2018; Sembel et al., 2023; Topkaraoglu, 2018; Wong et al., 2020; Wu & Yang, 2022). Wu & Yang, (2022) have also conducted research at Senior

High School level which discusses the effectiveness of textually enhanced captions on Chinese high school EFL learners' incidental vocabulary learning with a total of 133 students and obtained an F score of 1,244. Finally, the use of English-subtitled video-based speaking, listening and vocabulary learning has also been widely conducted at college level (Ahmed, 2022; Andi & Darvishi, 2019; Ashcroft et al., 2018; Dewi, 2023; Fitriyeni, 2020; Jao et al., 2022; Kim, 2020; Ridha et al., 2022; Tran, 2022). Fitriyeni (2020) has conducted research at college level, which discusses improving students' speaking skills using video with a total of 100 students and obtained the result that there is a significant impact of the use of the video in teaching speaking with a t-count of 14,766.

Recent studies have also explored the impact of different types of English videos on EFL learners' language skills. For example, some studies have compared the effects of using TED talks, YouTube videos, and news clips on learners' speaking fluency, accuracy, and complexity. Other studies have investigated the influence of using documentaries, movies, and cartoons on learners' listening comprehension, strategy use, and motivation. Moreover, some studies have examined the benefits of using academic lectures, podcasts, and songs on learners' vocabulary acquisition, retention, and production. These studies have provided valuable insights into the advantages and challenges of using English videos for EFL learners. However, they have also revealed some gaps and limitations in the current state of knowledge in the field. One of the major gaps is the lack of research on the relative impact of using English subtitles on different language skills. Most of the previous studies have focused on comparing different types of subtitles, such as native, foreign, or no subtitles, or different genres of videos, such as documentaries, movies, or cartoons, but not on examining how subtitles affect speaking, listening, and vocabulary skills separately and comparatively.

Therefore, this study aims to fill this gap by investigating the effect of using English-subtitled videos on EFL learners' speaking, listening, and vocabulary skills. The novelty of this study lies in its comprehensive and comparative approach to examining the role of subtitles in language learning. Unlike previous studies that have only looked at one or two language skills or one type of subtitles, this study will measure and compare the impact of subtitles on three language skills: speaking, listening, and vocabulary. Furthermore, this study will also analyze the effect of subtitles across different years and sample sizes, to explore the possible trends and variations in the results. This study is expected to contribute to the field of EFL learning and teaching by providing empirical evidence and practical implications for using English-subtitled videos as a language learning resource. The findings of this study could help researchers further explore the role of subtitles in language acquisition and development.

RESEARCH METHOD

This research uses a meta-analysis method. Meta-analysis is a study that researchers do to gather, summarize, review, and analyze data from several prior research findings (Tusaadia et al., 2022). This study is to determine the effectiveness of English-subtitled videos as a learning tool for enhancing speaking, listening, and vocabulary skills. Therefore, the goal is to find out which skill among speaking, listening and vocabulary is most affected by learning with English-subtitled video. Moreover, this study also investigates the year and the number of participants that had the highest impact from using English-subtitled video. To achieve this goal, it is necessary to collect data from the inclusion, selection and exclusion criteria that are compiled in the coding sheet in Microsoft Excel.

The inclusion, selection and exclusion criteria gathered in a Microsoft Excel coding sheet must match articles searched across multiple databases to support statistical analysis of meta-analyses that continue to calculate Effect Size (ES) and Standard Error (SE) values. The

studies eligible for a meta-analysis are chosen based on two criteria: inclusion criteria (eligibility criteria) refer to research characteristics relating to population issues based on education level, skill and year, related to “English-subtitled Video-based Speaking, Listening and Vocabulary”. Regarding the eligibility criteria, which speak to the characteristics of publications, the year (studies published between 2018-2023) and the types of publications (articles, journals and thesis) are all considered. In contrast, the exclusion criteria are used to find articles that can be used for statistical analysis of articles obtained based on inclusion criteria in meta-analyses. Exclusion criteria include research data as follows: percentage of each error indicator, Effect Size value (ES), Standard Error (SE) and number of sample (N) (W. Sari et al., 2023).

The research procedure employed in this study encompasses several sequential steps aimed at systematically aggregating and analyzing relevant scholarly articles. Initially, an exhaustive search for articles meeting the specified criteria is conducted across prominent databases, including Google Scholar, the Directory of Open Access Journals (DOAJ), and Scopus. The selection criteria are meticulously applied to curate a comprehensive pool of articles pertinent to the research objectives. Following the article selection process, the subsequent phase involves the systematic coding and tabulation of pertinent information extracted from the selected articles. This includes essential details such as the year of publication, author's name, academic level, class, skill under consideration, N-value, F-count, t-count, and r-count. Microsoft Excel serves as the designated platform for this data organization, facilitating a structured and systematic approach to information management. A pivotal transformation of F and t values into r values follows, accompanied by the computation of Effect Size (ES) and Standard Error (SE) values. This step is crucial for harmonizing the diverse statistical measures and ensuring a unified framework for subsequent analyses. The utilization of JASP software for simulations and data analysis constitutes the subsequent phase, leveraging computational tools for robust statistical insights and simulations. The final step involves a comprehensive analysis of the findings derived from the assembled articles, synthesizing the data into a coherent narrative that culminates in the meta-analysis's research findings. The analytical process involves a meticulous examination of the synthesized data, drawing connections, identifying patterns, and deriving meaningful conclusions that contribute to the broader understanding of the research topic. This systematic research procedure, outlined in its entirety, reflects a methodologically rigorous and transparent approach to conducting a meta-analysis, ensuring the reliability and validity of the study's outcomes.

Table 1
Classification of Glass's effect sizes

Effect Size (ES)	Category
$ES \leq 0.15$	Negligible effect
$0.15 < ES \leq 0.40$	Small effect
$0.40 < ES \leq 0.75$	Moderate effect
$0.75 < ES \leq 1.10$	High Effect
$1.10 < ES \leq 1.45$	Very High Effect
$1.45 < ES$	High Influence

Table 1 serves as a determinant for categorizing the level of influence based on Effect Size (ES). The application of this categorization system involves ascertaining the magnitude of the effect size value and subsequently attributing it to one of several predefined influence categories. According to the specifications outlined in Table 1, a nuanced classification is established to demarcate the extent of influence associated with varying effect size values.

Specifically, when the effect size value falls within the range of ≤ 0.15 , it is designated as constituting a negligible effect. A subsequent band, ranging from 0.15 to 0.40, is characterized as a small effect, while the category of moderate effect encompasses effect size values ranging from 0.40 to 0.75. Moving further along the spectrum, effect size values between 0.75 and 1.10 are deemed indicative of a high level of influence. Lastly, the very high effect category encapsulates effect size values falling within the range of 1.10 to 1.45. This systematic delineation of influence categories, grounded in the nuanced gradations of effect size values, provides a structured framework for researchers and practitioners to interpret and communicate the magnitude of effects observed in empirical studies. By aligning the effect size with distinct influence categories, researchers can convey the substantive significance of their findings, facilitating a more nuanced and standardized interpretation of the observed effects within the context of their study. This methodological approach, encapsulated in Table 1, underscores the importance of precision and consistency in the characterization of effect size magnitudes and their associated influence levels.

RESULT AND DISCUSSION

Data Selection Results

The results of the data set search yielded 142 data. According to the inclusion and exclusion criteria, 87 data and data that did not fit the inclusion and exclusion criteria were 55. The data collected in this study are the value of the Fisher test (F), student test (t), correlation test (r), and the amount of research data (N). Further data processing or analysis can also be carried out during the learning method under certain conditions. From the data collected, there are F, t and r values. These values must be converted into ES and SE values. The conversion results can be seen in Figure 1 and Figure 2 below.

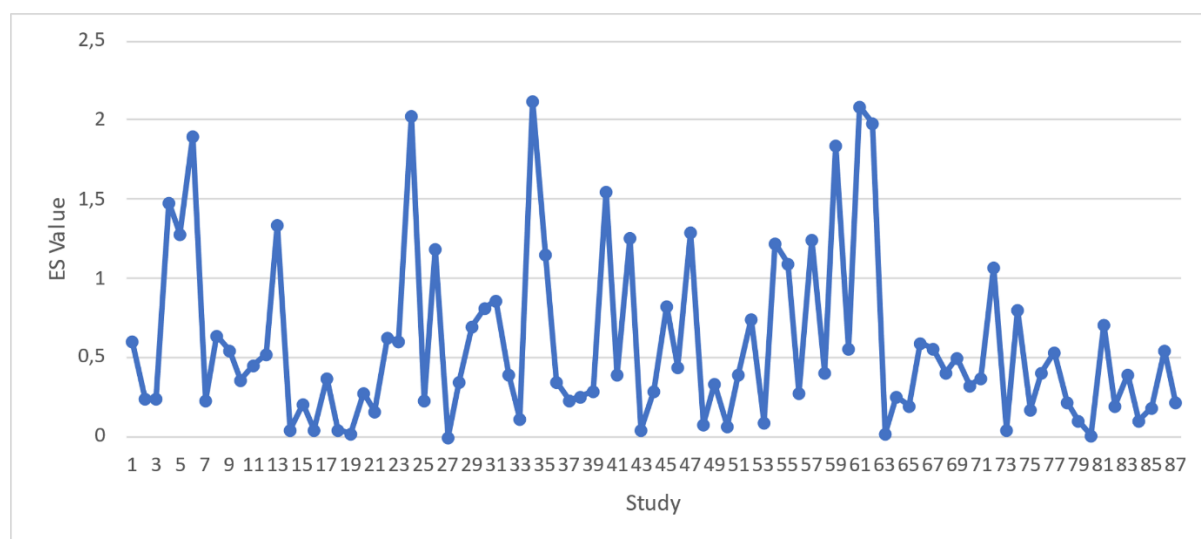


Figure 1. Results of ES Values

Figure 1 shows the effect size values of a total of 87 data consisting of 28 data for speaking, 26 data for listening, and 33 data for vocabulary. The effect size value is a way of quantifying how much two variables or groups differ from each other or how strong their relationship is. It shows how meaningful a research result is in real-world situations. A high effect size means that research finding has a lot of practical implications, while a low effect size means that a research finding has little practical relevance.



Figure 2. Results SE Values

Figure 2 presents the standard error values of the effect sizes for the three skills of speaking, listening, and vocabulary. The standard error values are based on 87 data points, with 28 for speaking, 26 for listening, and 33 for vocabulary. The standard error values indicate how reliable the effect size estimates are. A small standard error value means that the sample mean is a good estimate of the population mean, while a large standard error value means that the sample mean may be far from the population mean.

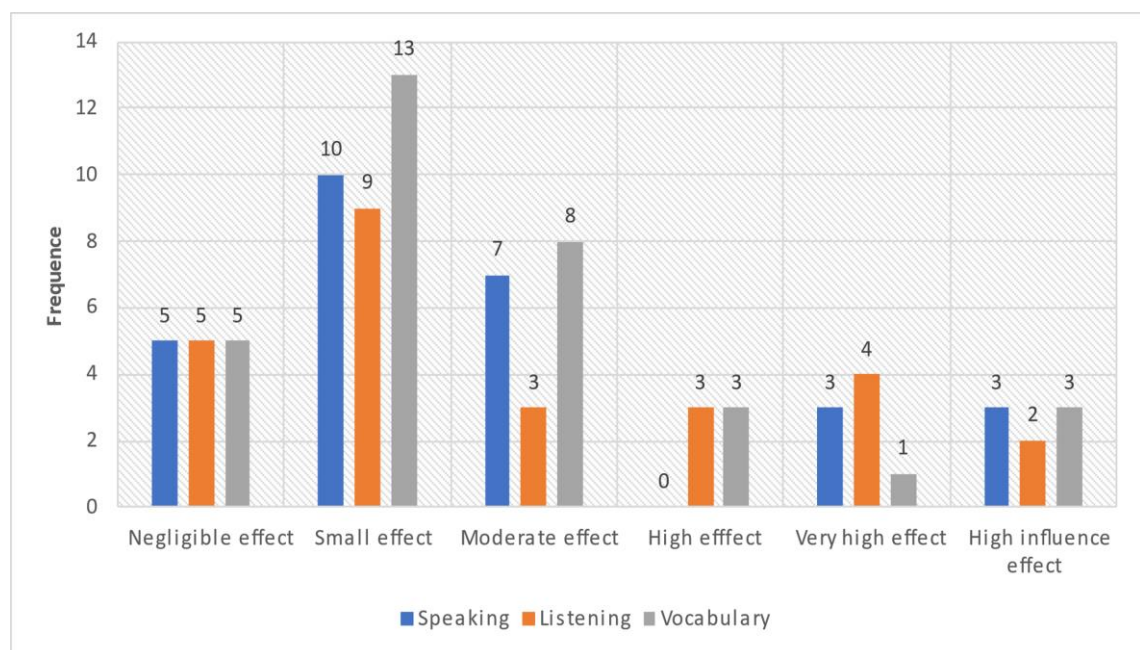


Figure 3. Level of Influence Category

Figure 3, which has 87 relevant data points, is separated into 15 data for negligible effect category, where each data consists of 5 data each for speaking, listening and vocabulary. Furthermore, the data for the small effect category consists of 32 data and each of them is 10 data for speaking, then 9 data for listening and finally 13 data for vocabulary. For

the moderate effect category there are a total of 18 data with data for speaking as much as 7, for listening is 3, and the last, 8 data for vocabulary. For the moderate effect category, there are only 6 data consisting of 3 data each for listening and vocabulary. Furthermore, for the high influence category, there are 3 data for speaking, 4 data for listening and finally there is only 1 data for vocabulary, so there are a total of 8 data for this category. Finally, there is a high influence effect category with a total of 8 data. Each of these data, data for speaking with a high influence effect category is 3 data, while for listening there are 2 data, and finally, for vocabulary there are 3 data with a high influence effect category. Subsequently, the authors employed a publication bias and a hypothesis test on the gathered data. The coefficient table displays the z and p values in a meta-analysis conducted using JASP software, as seen during the conclusion. The following is the hypothesis:

Hypothesis 1: Using English-subtitled effectively enhances students' speaking, listening and vocabulary learning.

Hypothesis 2: There is no publication bias from the data used in the research.

Hypothesis Test

A heterogeneity test was conducted in the first stage to see whether the data used fixed or random effects. The results are as follows in Table 2.

Table 2
Fixed and Random Effects

	Q	df	p
Omnibus test of Model Coefficients	97.675	1	< .001
Test of Residual Heterogeneity	1450.407	86	< .001

From the JASP results obtained through speaking, listening and vocabulary learning media utilizing English-subtitled videos, it can be seen that the data is heterogeneous with a $Q=1450.407$ and a value of $p<0.001$. Furthermore, consider the estimation of English-subtitled video in learning speaking, listening and vocabulary according to Table 3. The following are the estimation results of English-subtitled video in speaking, listening and vocabulary learning according to Table 3.

Table 3
Output JASP Coefficients

	Estimate	Standard Error	z	p
Intercept	0.590	0.060	9.883	< .001

In Table 3 about the coefficients, the estimate of the intercept is 0.59, which means that the average effect size for speaking, listening and vocabulary based on English-subtitled video is 0.59. The standard error of the estimate is 0.06, which measures the variability of the estimate. The z-score is 9.883, which is the ratio of the estimate to the standard error. The p-value is < .001, this means that the null hypothesis that the effect size is equal to 0 can be rejected at the 5% significance level, and the alternative hypothesis that the effect size is greater than 0 can be accepted. This indicates that speaking, listening and vocabulary based on English-subtitled videos has a positive and significant impact on the learning outcomes for students, accounting for 59% of the variance. The remaining 41% of the variance can be attributed to other factors, such as individual differences, motivation, prior knowledge, etc. To

assess the possibility of publication bias, a rank correlation test and a regression test were conducted, and the results are shown in Table 4. There was also a test for publication bias. This test is run to determine whether the data gathered can be taken as a representative of the general population. The rank correlation and regression test results can be used to evaluate this test. The output shown in Table 4 below is derived from JASP results.

Table 4
Rank correlation and Regression Test Results

Variable	Statistic	Value
Rank test	Kendall's τ	0.262
	p	< .001
Regression test	z	2.604
	P	0.009
Rosenthal	Fail-safe N	51442.000
	Target Significance	0.050
	Observed Significance	< .001

In Table 4 for rank correlation and regression, Kendall's value of the English-subtitled video learning media can be seen as 0.262, indicating a significant correlation coefficient between effect size and variance. The z-value shows the magnitude of the regression coefficient is 2.604, and the p-value of 0.009 is greater than the value of 0.001, indicating that the second hypothesis is accepted. In other words, there is no publication bias identified. Lastly, the Rosenthal variable shows how many studies with an average effect size equal to 0 should be added to the research sample so that the research results are free from publication bias. In addition, this can also be proven by looking at the funnel plot in Figure 4 below.

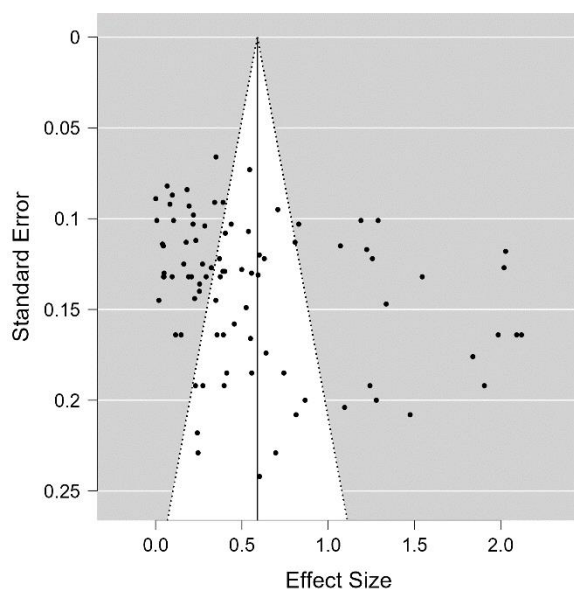


Figure 4. Funnel Plot

The findings of the meta-analysis examining the impact of utilizing English-subtitled videos as a learning medium for speaking, listening, and vocabulary skills are visually presented in Figure 4. Notably, the graphical representation of the publication in Figure 4

demonstrates an absence of evidence indicative of publication bias within the analyzed studies. Publication bias is a phenomenon characterized by a tendency for studies with positive or statistically significant results to be more readily published, potentially distorting the overall estimate of effect size. The funnel plot depicted in Figure 4 serves as a diagnostic tool, juxtaposing effect sizes of individual studies against their standard errors, inversely proportional to sample sizes. In the absence of publication bias, a symmetrical inverted funnel shape is anticipated, wherein larger studies cluster proximate to the mean effect size, and smaller studies scatter symmetrically on both sides. The openness of the funnel plot, denoted by the absence of missing studies represented by open circles, serves as a visual indicator of the meta-analysis's resilience against publication bias. This visual examination, reinforced by statistical analyses, fortifies the credibility of the meta-analytic results. Furthermore, the researcher employed a moderator variable test to gauge the influence of several factors, including skills, publication years, and the number of participants. These moderator analyses, documented in the table below, furnish a comprehensive understanding of the nuanced impact of these variables on the meta-analytic outcomes. The incorporation of such moderator analyses not only refines the interpretation of findings but also enhances the study's methodological rigor by accounting for potential confounding factors.

The Influence of English-Subtitled Video based on Skills

Moderator variable analysis is required to ascertain how much an English-subtitled video influences speaking, listening, and vocabulary skills.

Table 5
The Influence of English-Subtitled Video based on Skills.

Skill	N	Q-Test	Estimate	I ² (%)	RE Model	Category
Speaking	28	30.163	0.643	95.322	0.64[0.41,0.87]	Moderate Effect
Listening	26	31.664	0.586	94.186	0.59[0.38,0.79]	Moderate Effect
Vocabulary	32	34.872	0.549	95.177	0.55[0.37,0.73]	Moderate Effect

Table 5 indicates that the effect of using English-subtitled videos as a medium for learning speaking, listening and vocabulary is relatively moderate. On speaking ability with an estimate of 0.643 (moderate effect), while on listening ability of 0.586 (moderate effect) and finally on vocabulary ability of 0.549 (moderate effect). This result shows that English-subtitled video-based learning media has the same effect on speaking, listening and vocabulary skills. The use of English-subtitled videos has a moderate effect on improving the three skills of speaking, listening and vocabulary. This means that students who watch English-subtitled videos can enhance their language proficiency in these areas, but not significantly. The Q-test values indicate that there is a high heterogeneity among the studies included in the meta-analysis, which suggests that there are other factors that may influence the outcomes, such as the quality of the videos, the duration of the intervention, the level of the learners, and the assessment methods. The RE model values show the confidence intervals of the effect sizes, which are relatively wide, indicating a low precision of the estimates. The researchers will next present funnel plots for each skill, ranging from speaking, listening and vocabulary, to show that the results shown in Table 5 are free from publication bias. Therefore, funnel plots for speaking, listening and vocabulary will be displayed in Figure 5, 6 and 7 below.

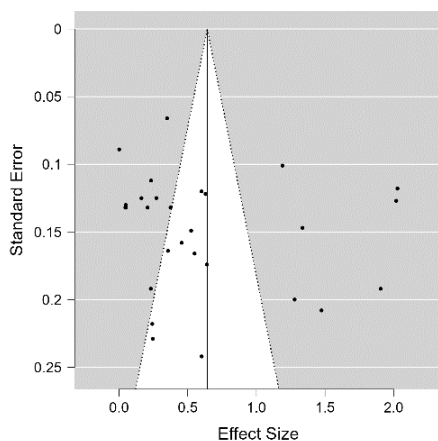


Figure 5. Funnel Plot for Speaking

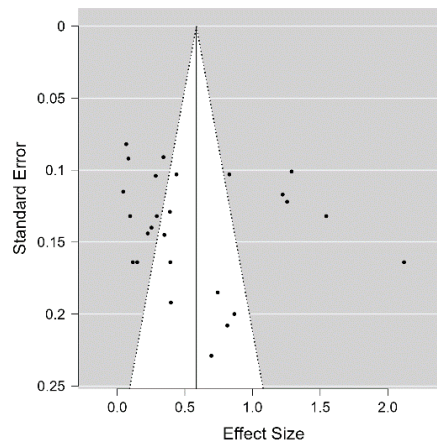


Figure 6. Funnel Plot for Listening

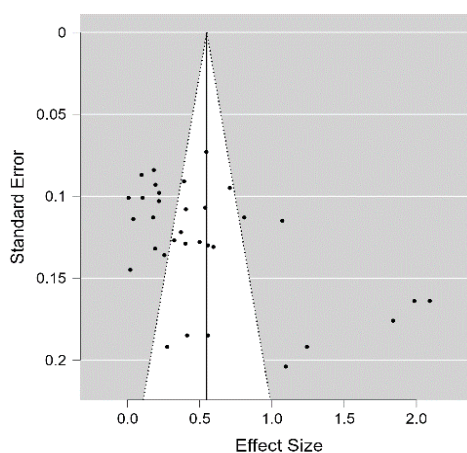


Figure 7. Funnel Plot for Vocabulary

Based on Figure 5, 6 and 7, from the funnel plots, we can see that no publication bias is identified because all circles are closed. Next, from the forest plot image of speaking, a summary effect value is 64%, which is the highest influence compared to listening, with an effect value of 59% and vocabulary, with an effect value of 55%. Subsequently, as displayed Table 5, the effect size of speaking is 0.64, with a minimum value of 0.41 and maximum value of 0.87. Next, the effect size value of listening is 0.59, with a minimum value of 0.38 and a maximum of 0.79. Finally, the effect size value of vocabulary is 0.55, with a minimum value of 0.37 and maximum of 0.73. Overall, it can be said that the application of English-subtitled videos has the highest impact on speaking compared to listening and vocabulary. This data is supported by research conducted (Wulandari, 2019) with an effect size of 1.27, (Hadi, 2019) with an effect size of 1.90, (Jao et al., 2022) with an effect size of 1.47, (Salem, 2019) with an effect size of 1.33, (Bedaiwy, 2022) with an effect size of 2.02, and finally, research conducted by (Alabsi, 2020) with an effect size of 1.19.

The Influence of Englis-Subtitled Video on Speaking, Listening and Vocabulary based on Moderator's Variable

At this point, the author analyzes the data to ascertain how the English-subtitled video influences learning outcomes when viewed based on number of participants and publication

years. The JASP output is shown in the following table according to number of participants and publication years.

Table 6
The Influence of English-Subtitled Video Based on Publication Years and Participants

Variable	Interval	N	Q-Test	Estimate	I ² (%)	RE Model	Category
Publications Year	2018	15	32.587	0.387	74.503	0.39[0.25,0.52]	Small Effect
	2019	17	21.624	0.568	94.448	0.57[0.33,0.81]	Moderate Effect
	2020	15	18.762	0.441	90.021	0.44[0.24,0.64]	Moderate Effect
	2021	18	19.640	0.734	97.004	0.73[0.41,1.06]	Moderate Effect
	2022	17	19.546	0.771	96.755	0.77[0.43,1.11]	High Effect
	2023	5	6.483	0.531	87.977	0.53[0.12,0.94]	Moderate Effect
Number of Participants	0-40	27	47.067	0.866	91.924	0.87[0.62,1.11]	High Effect
	41-80	37	37.156	0.534	94.202	0.53[0.36,0.71]	Moderate Effect
	> 80	23	27.683	0.378	92.689	0.38[0.24,0.52]	Small Effect

Based on Table 6, in publication years, starting from 2018-2023, English-subtitled videos as learning media for speaking, listening and vocabulary have a significant impact in 2022 with an estimate of 0.771 with a minimum value of 0.43 and maximum value of 1.11. While in 2019, 2020, 2021, and 2023 have the same impact which is in the moderate category, with an estimate in 2019 of 0.568, in 2020 of 0.441, in 2021 of 0.734 and finally in 2023 with an estimate of 0.531. Furthermore, for 2018, with a small effect with an estimate of 0.387. Finally, in the category of the number of participants, English-subtitled videos are very influential, with the number of participants less than 40 people with an estimate of 0.886 and, a minimum value of 0.62 and a maximum value of 1.11. For the number of participants ranging from 41-80, the effect size is 0.53, which is in the moderate category with a minimum value of 0.36 and the maximum value of 0.71. Furthermore, for the number of participants, more than 80 are included in the small effect with an effect size value of 0.38, a minimum value of 0.24, and the maximum value of 0.52. Based on the above statements, it can be concluded that the use of English-subtitled video is more effectively used with the number of participants less than 40. This data is proved by the research conducted (Ridha et al., 2022) with an effect size of 1.985, which considered in high category, and resulted that English-subtitled video make studying more interesting, and (Khadawardi, 2022) with an effect size of 1.838, also considered in high category, which results included that watching English-subtitled video had an effective learning result and a positive impact on students' vocabulary.

CONCLUSION

This study aims to measure and compare the impact of subtitles on three language skills: speaking, listening, and vocabulary. In light of the findings from this study, English-subtitled videos prove to be a moderately effective medium for enhancing speaking, listening, and vocabulary skills, accounting for 59% of the observed impact. However, a closer examination of individual skills, as outlined in Table 6, highlights that the use of English-subtitled videos has the most substantial positive effect on speaking proficiency, with an estimated effect size of 0.643. This effect is notably higher than the impact on listening and vocabulary skills. When assessing the influence of English-subtitled videos over different publication years, it becomes evident that the year 2022 emerges as particularly influential, falling into the high impact category with an estimated effect size of 0.771. Conversely, the lowest influence is observed in studies published in 2018, with an effect size estimate of

0.387. Furthermore, when considering the number of participants, it is apparent that studies with fewer than 40 participants exhibit the most significant impact, with an estimated effect size of 0.886. This suggests that English-subtitled videos are especially effective in improving speaking skills when employed with smaller sample sizes.

The study's findings hold valuable implications for educators and curriculum developers seeking to enhance language learning outcomes. The demonstrated effectiveness of English-subtitled videos, particularly in improving speaking skills, highlights the potential for integrating such multimedia resources into language instruction. As the impact is most pronounced with smaller groups, educators can consider tailoring their approaches to capitalize on this medium, creating more engaging and interactive learning experiences. Moreover, the study underscores the need for up-to-date instructional materials, with the year 2022 showcasing significant impact, emphasizing the importance of staying current with evolving language teaching methodologies. These insights can guide educators and curriculum developers in making informed decisions about the implementation of multimedia resources in language education.

REFERENCES

- Abidin, Z., & Ngadiman, A. (2021). The Effect of Youtube on Speaking Ability of Senior High School Students. *Magister Scientiae*, 49(2), 146–155. <https://doi.org/https://doi.org/10.33508/mgs.v49i2.3401>
- Ahmed, A. (2022). Perception and Opinion of Students' on the Use of Subtitled Video To Improve their English Vocabulary and Learning Motivation: Tertiary Level Students of Bangladesh. *Perception and Opinion of Students' on the Use of Subtitled Video To Improve Their English Vocabulary and Learning Motivation: Tertiary Level Students of Bangladesh, September*, 1–67. <https://doi.org/10.13140/RG.2.2.14842.77760>
- Alabsi, T. (2020). Effects of adding subtitles to video via apps on developing efl students' listening comprehension. *Theory and Practice in Language Studies*, 10(10), 1191–1199. <https://doi.org/10.17507/tpls.1010.02>
- Alharthi, T. (2020). Can adults learn vocabulary through watching subtitled movies? An experimental corpus-based approach. *International Journal of English Language and Literature Studies*, 9(3), 219–230. <https://doi.org/10.18488/JOURNAL.23.2020.93.219.230>
- Altun, M., & Hussein, K. O. (2022). The Impact of Watching Movies on Students' Speaking Ability. *Canadian Journal of Language and Literature Studies*, 2(5), 14–31. <https://doi.org/10.53103/cjlls.v2i5.52>
- Alzamil, A. (2022). Saudi Students' Attitudes to the Use of Subtitles to Improve Their Listening Skills. *Arab World English Journal*, 13(1), 486–494. <https://doi.org/10.24093/awej/vol13no1.32>
- Andi, S. T., & Darvishi, S. (2019). A Comparative Study of the Effectiveness of Persian vs. English Subtitled Movies on Listening Comprehension Ability among Iranian Intermediate EFL Learners. *Journal of Teaching English Language Studies*, 7(3), 43–61. http://journals.iau.ir/article_665007_3660cf8d8b217e650c0b3878c76b5786.pdf
- Ashcroft, R. J., Garner, J., & Haddingham, O. (2018). Incidental vocabulary learning through watching movies. *Australian Journal of Applied Linguistics*, 1(3), 135–147. <https://doi.org/10.29140/ajal.v1n3.89>
- Audina, A., & Suminar, A. R. (2018). The influence of subtitles in short movies on students' listening comprehension (A quasi-experimental study in one of state junior high schools in Garut). *English Education and Applied Linguistics (EEAL) Journal*, 1(3), 192–196.

- Azizah, N. Z., & Yaumi, M. (2018). the Influence of Subtitle Film on Students' Listening Motivation. *ETERNAL (English, Teaching, Learning and Research Journal)*, 4(1), 117–126. <https://doi.org/10.24252/eternal.v4i1.2018.a9>
- Bahtiar, I. (2023). Exploring English Subtitles on YouTube Video for the Enhancement of English as a Foreign Language in Students' Listening Comprehension. *Universitas Islam Negeri, January*.
- Bedaiwy. (2022). The Effect of TED Talks on Developing University Students' Persuasive Speaking Skills and Reducing Anxiety. *Journal of Scientific Research in Education*, 23(3), 287–329.
- Bostanci, H. B. (2022). The Impact of subtitled films on English as a second language students' vocabulary retention. *Journal for Educators, Teachers and Trainers*, 13(1), 101–109. <https://doi.org/10.47750/jett.2022.13.01.012>
- Chen, Y. Y., Chang, Y. S., Lee, J. Y., & Lin, M. H. (2021). Effects of a Video Featuring Connected Speech Instruction on EFL Undergraduates in Taiwan. *SAGE Open*, 11(2). <https://doi.org/10.1177/21582440211019746>
- Dewi, T. P. (2023). EFL Students' Perception of Using YouTube in an Academic Listening Class. *Wiralodra English Journal*, 7, 23–36. <https://wej.unwir.ac.id/index.php/wej/article/view/215>
- Dizon, G., & Gayed, J. M. (2021). An exploratory study on the use of interactive video via Netflix to improve second language aural vocabulary learning. *AsiaCALL Online Journal*, 12(5), 2021. <http://eoi.citefactor.org/10.11251/acoj.12.05.007EOI:http://eoi.citefactor.org/10.11251/acoj.12.05.007>
- Ebrahimi, R., Kargar, A. A., & Zareian, A. (2018). The Effect of Input-flood through Watching English Movies on Language Productive Skills. *Journal of Applied Linguistics and Language Research*, 5(2), 94–111. www.jallr.com
- Fernando, Tandyono, W., & Taslim, Y. (2023). *The Effectiveness of Watching an English Movie with and Without English Subtitle for Students' Listening Skill*. 3(1), 35–48. <https://journal.widyadharma.ac.id/index.php/bless/article/view/1393>
- Fikri, Suriaman, A., & Rita, F. (2021). English Subtitle Video in Teaching Vocabulary to the Junior High School Students in Palu. *Proceedings of the 5th International Conference on Arts Language and Culture (ICALC 2020)*, 534(534), 76–86. <https://doi.org/10.2991/assehr.k.210226.050>
- Fitriyeni, T. W. (2020). Improving Students' Speaking Skills Using Video. *Malaysian Palm Oil Council (MPOC)*, 4(1), 1–9. <http://journal.um-surabaya.ac.id/index.php/JKM/article/view/2203%0Ahttp://mpoc.org.my/malaysian-palm-oil-industry/>
- Hadi, M. (2019). The Effect of a Socio-cultural Factor on the Organization of Communication Structure among Iranian Teenagers in EFL Context. *Applied Linguistics Research Journal*, 3(3), 41–50. <https://doi.org/10.14744/alrj.2019.94914>
- Hwang, G. J., Hsu, T. C., & Hsieh, Y. H. (2019). Impacts of Different Smartphone Caption/Subtitle Mechanisms on English Listening Performance and Perceptions of Students with Different Learning Styles. *International Journal of Human-Computer Interaction*, 35(4–5), 333–344. <https://doi.org/10.1080/10447318.2018.1543091>
- Jao, C. Y., Yeh, H. C., Huang, W. R., & Chen, N. S. (2022). Using video dubbing to foster college students' English-speaking ability. *Computer Assisted Language Learning*, 0(0), 1–23. <https://doi.org/10.1080/09588221.2022.2049824>
- Khadawardi, H. A. (2022). Teaching L2 Vocabulary Through Animated Movie Clips with English Subtitles. *International Journal of Applied Linguistics and English Literature*,

- 11(2), 18–27. <https://doi.org/10.7575/aiac.ijalel.v.11n.2p.18>
- Khadidja, C., & Manar, D. (2018). *Investigating Students' Attitudes towards Watching English Movies in Enhancing EFL Students' Speaking Skill*. <http://172.30.82.82/jspui/handle/123456789/105>
- Kim, N. Y. (2020). The effects of the use of captions on low- and high-level EFL learners' speaking performance. *Linguistic Research*, 37(Special Edition), 135–161. <https://doi.org/10.17250/khisli.37..202009.006>
- Kinasih, P. R., & Olivia, O. (2022). An Analysis of Using Movies to Enhance Students' Public Speaking Skills in Online Class. *Journal of Languages and Language Teaching*, 10(3), 315. <https://doi.org/10.33394/jollt.v10i3.5435>
- Lestari, J. A. (2019). The Use of Youtube Vlog to Improve The Students' Listening Skill of MTs Samarinda. *Tarbiyah Wa Ta'lim: Jurnal Penelitian Pendidikan Dan Pembelajaran*, 6(1), 35–45. <https://doi.org/10.21093/twt.v6i1.2041>
- Liando, N. V., Sahetapy, R. J., & Maru, M. G. (2018). English Major Students' Perceptions Towards Watching English Movies in Listening and Speaking Skills Development. *Advances in Social Sciences Research Journal*, 5(6), 1–16. <https://doi.org/10.14738/assrj.56.4627>
- Mansouri, I., & Grib, D. (2020). *Ministry of Higher Education and Scientific Research The Effectiveness of Using English Subtitles Movies as a Successful Vocabulary Building Material in Secondary Schools The Case of Second Year Foreign Languages Students at Candidates : Board of Examiner*.
- Matondang, B. R., & Ashari, A. (2019). The Correlation between Watching English Movie Habit and Listening Achievement of The Eleventh Grade Students of MA NU Raum Wedung in The Academic Year 2018/2019. *Universitas Islam Malang*, 15–20. <https://www.academia.edu/download/57679319/FULTEXT.pdf>
- Mazahery, S., Hashemian, M., Alipour, J., & Tefl, □ M A In. (2021). Vocabulary Learning by Iranian Adult L2 Learners via Extensive Viewing of Subtitled and Captioned TV Series. *Journal of Teaching Language Skills (JTLS)*, 40(1), 83–115. <https://doi.org/10.22099/jtls.2021.39209.2921>
- Megawati, F., & Nuroh, E. Z. (2018). the Effect of English Subtitle in “Zootopia” Movie in Speaking Skill. *Jo-ELT (Journal of English Language Teaching) Fakultas Pendidikan Bahasa & Seni Prodi Pendidikan Bahasa Inggris IKIP*, 5(2), 94. <https://doi.org/10.33394/jo-elt.v5i2.2307>
- Metruk, R. (2018). The effects of watching authentic English videos with and without subtitles on listening and reading skills of EFL learners. *Eurasia Journal of Mathematics, Science and Technology Education*, 14(6), 2545–2553. <https://doi.org/10.29333/ejmste/90088>
- Miranda, J. A. M., & Wahyudin, A. Y. (2023). Pre-Service Teachers' Strategies in Improving Students' Speaking Skilss. *Journal of English Language Teaching and Learning (JELTL)*, 4(1), 40–47. <http://jim.teknokrat.ac.id/index.php/english-language-teaching/index>
- Napikul, S., Cedar, P., & Roongrattanakool, D. (2018). The Effects of Film Subtitles on English Listening Comprehension and Vocabulary. *International Journal of Applied Linguistics and English Literature*, 7(6), 104. <https://doi.org/10.7575/aiac.ijalel.v.7n.6p.104>
- Nuraeni, R., Mulyati, S., Putri, T. E., Rangkuti, Z. R., Pratomo, D., Ak, M., Ab, S., Soly, N., Wijaya, N., Operasi, S., Ukuran, D. A. N., Terhadap, P., Sihalo, S., Pratomo, D., Nurhandono, F., Amrie, F., Fauzia, E., Sukarmanto, E., Partha, I. G. A., ... Abyan, M. A. (2017). The Effectiveness of Learning Vocabulary in Subtitle Fable Story Using Problem

- Based Learning Method in the Second Grade Student of SMP N 2 Gamping in Academic Year 2016/2017. *Diponegoro Journal of Accounting*, 2(1), 2–6. http://i-lib.ugm.ac.id/jurnal/download.php?dataId=2227%0A???%0Ahttps://ejournal.unisba.ac.id/index.php/kajian_akuntansi/article/view/3307%0Ahttp://publicacoes.cardiol.br/portal/jcs/portugues/2018/v3103/pdf/3103009.pdf%0Ahttp://www.scielo.org.co/scielo.ph
- Okar, N., & Shahidy, S. H. (2019). Using Pictures of Movie Conversations with Input Enhancement in Subtitles for Developing Speaking of Iranian EFL Intermediate Learners. *International Journal of English Language & Translation Studies*, 7(3), 93–104. www.eltsjournal.org
- Peters, E. (2019). The effect of imagery and on-screen text on foreign language vocabulary learning from audio-visual input. *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 224(11), 122–130. <https://onlinelibrary.wiley.com/doi/abs/10.1002/tesq.531>
- Pudjiati, D., & Fitria, T. N. (2022). Digital literacy in learning listening skill between English and Non-English Department students through educational video. *Leksika: Jurnal Bahasa, Sastra Dan Pengajarannya*, 16(1), 33. <https://doi.org/10.30595/lks.v16i1.13016>
- Pujadas, G., & Muñoz, C. (2019). Extensive viewing of captioned and subtitled TV series: a study of L2 vocabulary learning by adolescents. *Language Learning Journal*, 47(4), 479–496. <https://doi.org/10.1080/09571736.2019.1616806>
- Rachmijati, C., Anggraeni, A., & Apriliyanti, D. L. (2019). Implementation of Blended Learning through Youtube Media to Improve Students' Speaking Skill. *OKARA: Jurnal Bahasa Dan Sastra*, 13(2), 153. <https://doi.org/10.19105/ojbs.v13i2.2424>
- Rahmawanti, M. R., Larasati, T. M., & Rahayu, N. (2021). Student's Perception on the Use of English-subtitled Movies Toward Learner's Spoken Grammar Understanding. *Wiralodra English Journal (WEJ)*, 5(2), 39–49.
- Ratnaningsih, L., & Gumindari, S. (2022). The Impact of TED Youtube Channel to Improve Listening in English Learning Students of TBI IAIN Cirebon. *International Journal of Educational Qualitative Quantitative Research*, 1(1), 8–15. <https://doi.org/10.58418/ijeqq.v1i1.2>
- Rawanita. (2018). *Using Animation Movies to Enhance Students' Listening Skill: A Comparative Study between Using and not Using English Subtitles*. 231324130. <https://repository.ar-raniry.ac.id/id/eprint/3269>
- Ridha, S. K., Bostanci, H. B., & Kurt, M. (2022). Using Animated Videos to Enhance Vocabulary Learning at the Noble Private Technical Institute (NPTI) in Northern Iraq/Erbil. *Sustainability (Switzerland)*, 14(12). <https://doi.org/10.3390/su14127002>
- Rosales, A. (2019). Journal of English Language Teaching Vocabulary Acquisition (Incidental) through Watching Subtitled Video Material Article Info. *Journal of English Language Teaching*, 6(1), 190–197. <http://journal.unnes.ac.id/sju/index.php/elt>
- Sadiku, A. (2018). The Role of Subtitled Movies on Students' Vocabulary Development. *International Journal of Science: Basic Research and Applied Research*, 212–221. <https://doi.org/10.33107/ubt-ic.2017.114>
- Salem, A. A. M. S. (2019). A Sage on a Stage, to Express and Impress: TED Talks for Improving Oral Presentation Skills, Vocabulary Retention and Its Impact on Reducing Speaking Anxiety in ESP Settings. *English Language Teaching*, 12(6), 146. <https://doi.org/10.5539/elt.v12n6p146>
- Sari, D. P., & Apriani, S. T. (2020). Improving English University Students' Speaking Skill Through Effortless English Movie Technique. *Journal Polingua: Scientific Journal of Linguistic Literatura and Education*, 9(2), 43–47. <https://doi.org/10.30630/polingua.v9i2.137>

- Sari, W., Ilham, I., & Ismail, H. (2023). Meta-Analysis of Mind Mapping in Vocabulary Learning of the Past Decade. *English Review: Journal of English Education*, 11(2), 347–356. <https://doi.org/10.25134/erjee.v11i2.7610>
- Sembel, N., Pelengkahu, N., & Maru, M. G. (2023). the Use of English Subtitle in Movie To Improve Students' Vocabulary. *SoCul: International Journal of Research in Social Cultural Issues*, 1(6), 385–396. <https://doi.org/10.53682/soculjrccsscli.v1i6.5772>
- Timilsina, A. (2022). The Use of Subtitled Videos for Vocabulary Learning Asmita. In *Department of English Education In Partial Fulfilment for the Master of Education in English* (Vol. 33, Issue 1).
- Topkaraoglu, M. (2018). The Role of Subtitles in EFL Learners Bottom-Up Processing Skills in Listening. *International Journal of Language Academy*, 6(24), 347–361. <https://doi.org/10.18033/ijla.3970>
- Tran, T. T. Q. (2022). Using Youtube Video Clips of Different Themes To Enhance Students' Listening Skill in an Emi Class. *Scope : Journal of English Language Teaching*, 6(2), 106. <https://doi.org/10.30998/scope.v6i2.11351>
- Tusaadia, A., Abdillah, A., Mahsup, M., Mandailina, V., & Syaharuddin, S. (2022). Learning Independence Towards Mathematics Learning Outcomes Based on Education Level. *Indonesian Journal Of Educational Research and Review*, 5(3), 577–587. <https://doi.org/10.23887/ijerr.v5i3.52312>
- Valizadeh, M. (2021). Effects of L1 and L2 Subtitled English Movies on Pre-Intermediate Learners' Comprehension and Speaking Abilities. *Theresa Journal of Humanities and Social Sciences*, 7(2).
- Wong, S. W. L., Lin, C. C. Y., Wong, I. S. Y., & Cheung, A. (2020). The Differential Effects of Subtitles on the Comprehension of Native English Connected Speech Varying in Types and Word Familiarity. *SAGE Open*, 10(2). <https://doi.org/10.1177/2158244020924378>
- Wu, H., & Yang, X. (2022). Effectiveness of textually-enhanced captions on Chinese High-school EFL learners' incidental vocabulary learning. *Porta Linguarum*, 2022(38), 209–228. <https://doi.org/10.30827/portalin.vi38.23511>
- Wulandari, M. (2019). Improving Efl Learners Speaking Proficiency Through Instagram Vlog. *LLT Journal: A Journal on Language and Language Teaching*, 22(1), 111–125. <https://doi.org/10.24071/llt.v22i1.1796>