LANGUAGE PROFICIENCY AND ACADEMIC SUCCESS IN UNIVERSITY: A COMPREHENSIVE STUDY

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DOI: 10.5281/zenodo.10804022

Abstract

This study explores the complex relationship between language competency and the academic progress of college students. The main aim of the study is to thoroughly investigate the impact of language proficiency on academic achievement and its influence on overall educational experiences. Using a quantitative research methodology, information was gathered from a sample of 35 university students, aged 20-24, who were selected to represent various faculties and linguistic origins. The survey utilized Likert-scale questions to measure individuals' self-reported language competency, evaluate the perceived influence of language on academic achievement and overall educational experiences, and collect demographic data. The results suggest that the majority of participants have a strong belief in student's language abilities, with a considerable percentage rating themselves as highly skilled at levels 4 and 5. The observed correlation between language proficiency and academic performance demonstrates variability, with a considerable group acknowledging a notable effect. Significantly, a substantial proportion of students express a "negative" influence on students overall educational experiences, highlighting difficulties related to language utilization. Ultimately, this study illuminates the intricate correlation between language proficiency and the academic trajectories of university students. The results emphasize the necessity of customized language support methods to improve the overall educational experience.

Keywords: Language Proficiency, Academic Performance, Educational Experiences.

INTRODUCTION

Within the dynamic and complex landscape of higher education, the relationship between language and education plays a crucial role in influencing both academic achievement and the overall growth of university students (Lin et al., 2023; Meyer et al., 2023; Privitera et al., 2023). This research explains a detailed and comprehensive investigation, examining the complex nuances that define the dynamic connection between language and education in various university environments. The main goal is to shed light on the significant and complex influence that these elements have on the overall experiences of students who actively navigate the domains of higher education. The modern university environment, characterized by its varied student demographics, language origins, and teaching methods, provides a fertile field for research (Ardi et al., 2018; Kasriyati et al., 2022; Wijayanti et al., 2024). This study aims to elucidate the intricate relationship between language and educational processes, enhancing our comprehension of the difficulties and possibilities faced by students in students' pursuit of higher education.

The significance of linguistic proficiency in achieving academic success cannot be exaggerated. In a world that is becoming more globalized, where institutions are attracting students from various linguistic backgrounds, language fluency is not only important for conversation but also essential for understanding and accessing academic content. Students with proficient language abilities are more capable of actively interacting with course materials (Episiasi et al., 2023; Prayitno et al., 2021; Ramadhan et al., 2020), actively participating in discussions, and generating exceptional academic work (Syaputri, 2019). On the other hand, those who have a restricted ability to use language may face obstacles that impede their academic advancement and entire educational journey.

This study utilises Meng & Fu, (2023), Sadoughi et al. (2023) and Zhang (2023) sociocultural theory of learning to examine the significant function of language as a mediating instrument in the complex dynamics of the learning process. Their theory asserts that language functions not just as a neutral means of communication but also as a cognitive instrument that actively moulds mental processes, supports learning, and impacts the overall trajectory of learning results. Adopting this theoretical viewpoint, the study aims to reveal the intricate ways in which language functions (García-Díaz et al., 2023; Lee, 2023) as a dynamic power in the field of education, significantly impacting the intellectual progress and cognitive development of college students. The study seeks to investigate the complicated interconnections between linguistic features, cognitive processes, social interactions, and cultural environments within the framework of sociocultural theory. Language is analysed in terms of its ability to shape intellectual landscapes, serving as a means for individuals and groups to create and convey meaning (Derakhshan et al., 2023; Lourenço et al., 2023; Xi et al., 2023). This entails a comprehensive examination of how language exchanges in educational environments promote the formation of knowledge, the growth of critical thinking abilities, and the fostering of collective comprehension among students. The empirical investigation in this study is driven by combining strong theoretical foundations with practical examinations. By combining Golder et al., (2023) and Trevisan et al. (2023) theoretical insights with the analysis of actual educational settings, this research aims to uncover the intricate and nuanced relationship between language and education. The study seeks to make substantial contributions to the ongoing scholarly discussion on language and education by providing a thorough evaluation.

Although previous research has offered useful insights into the connection between language proficiency and academic achievement (Y. Chen et al., 2023; Ennser-Kananen et al., 2023; Feraco et al., 2023), there are still several gaps that require additional investigation. Primarily, a significant portion of the literature primarily concentrates on the influence of language proficiency on academic success within specific disciplinary contexts or among specific student populations. Furthermore, although several studies have examined the influence of language proficiency on cognitive processes and critical thinking abilities, there is still a lack of research on the specific ways in which language competency affects these outcomes. Gaining insight into the impact of language competence on cognitive development and higher-order thinking skills is crucial for designing precise treatments to assist students with diverse language capabilities. Moreover, there has been a lack of focus on the subjective perceptions of students regarding how their language skills affect their entire educational experience. An investigation of students' beliefs, attitudes, and difficulties

regarding language proficiency might offer useful insights into the real-life experiences of individuals navigating higher education in linguistically diverse settings. It is essential to address these gaps in the existing body of knowledge in order to build a detailed comprehension of the connection between language competency and academic achievement. This will also help in designing effective interventions and support systems to improve students' educational experiences.

This study seeks to address the gaps in existing data by undertaking a thorough analysis of how language proficiency affects academic progress and overall educational experiences among university students.

This research aims to add to the continuing discussion on language and education and improve evidence-based strategies in higher education settings by analyzing the relationship between language competency, cognitive development, and students' subjective experiences.

METHOD

The research design for this study entails a thorough investigation of the complex correlation between language competency, academic achievement, and the perceived influence of language on the educational experience (Aizawa et al., 2023; Feng et al., 2020; Wu et al., 2021).

The selected sample comprises 35 university students, aged between 20 and 24, who are currently in a crucial stage of higher education. During this period, these individuals encounter various academic courses and linguistic challenges. The goal is to use a quantitative method to obtain statistically robust insights into the quantitative components of this dynamic interaction.

In order to achieve thorough comprehension, participants are intentionally selected to encompass a wide range of linguistic backgrounds and academic specialties (He et al., 2023).

It meticulously crafts the survey questionnaire to include Likert-scale answers, an essential tool for gathering data. Participants' self-reported language proficiency and students' perceptions of how language affects students' academic progress are assessed using these items.

Furthermore, it collect demographic data such as age, field of study, and language used for instruction. University records are used to supplement the self-reported data and provide an unbiased view of academic accomplishments by obtaining the academic records of participants, including grades and course completion rates. Data collection entails electronically disseminating the survey questionnaire to the designated 35 participants.

Concise directions and subsequent prompts are given to maximize the number of responses received. Concurrently, it retrieves academic records while adhering to rigorous privacy and confidentiality measures.

The survey questionnaire intricately collects quantifiable data regarding participants' perceptions. The survey incorporates Likert-scale questions to gauge self-reported language skills and evaluate the perceived influence of language on academic achievement and the overall educational encounter. Gathering demographic data

includes collecting information on age, field of study, and language used for instruction.

Section	Question	Response Options
Demographics	1. What is your age?	[]20-24
	2. What is your faculty and semester?	[] Humanities [] 2 [] 4 [] 6
	3. Language of Instruction	[] Bahasa Indonesia [] Minang [] Java [] Batak [] Others
Language Proficiency	4. Rate your self-perceived language proficiency on a scale of 1-5 (1 being lowest, 5 being highest).	[]1[]2[]3[]4[]5
Perceived Impact	5. To what extent do you believe language proficiency affects your academic performance?	[] Not at all [] Slightly [] Moderately [] Very much [] Extremely
	6. How do you perceive the impact of language on your overall educational experience?	[] Positive [] Neutral [] Negative

Table 1: Questionnaire Structure

This research aims to thoroughly analyze the academic trajectories of participants by extensively exploring the comprehensive collection of university data. The comprehensive investigation entails the collection of diverse academic performance data, including not just grades but also intricate information such as course completion rates. This thorough technique aims to reveal a complete overview of participants' scholastic pursuits, guaranteeing a full and detailed appraisal of student's educational accomplishments. The inherent significance of this objective information rests in its function as a crucial complement to the self-reported survey data. The study aims to enhance precision by integrating several data sources, providing a comprehensive picture of the multiple aspects that influence the educational environment for each participant. This comprehensive perspective seeks to go beyond superficial observations, offering a strong basis for the future phases of data analysis and interpretation within the wider context of the study's goals. During the survey phase, it electronically distributes a meticulously crafted questionnaire to the selected group of 35 participants.

This study employs explicit instructions and amicable reminders to motivate students' responses, guaranteeing the acquisition of a robust dataset for analysis. The objective of this technique is to simplify the procedure for participants, enhance students' comprehension of the questions, and improve the probability of receiving prompt and accurate responses. Our objective is to enhance the reliability and depth of our dataset for subsequent analysis by integrating electronic distribution with efficient communication, resulting in a positive and engaging experience for participants.

The study meticulously examines university records, with a particular emphasis on privacy and confidentiality. By employing this procedure, this study are able to collect academic performance data for each of the 35 participants, augmenting our dataset with significant and unbiased information regarding student's educational progress. Through adherence to stringent privacy protocols, it guarantees the ethical management of confidential data and cultivate trust among participants. This approach not only grants access to grades but also provides a thorough perspective on course completion rates and other academic particulars.

Combining this factual data with the survey replies forms a comprehensive representation of participants' academic experiences. Our dedication to privacy and ethical standards demonstrates our commitment to preserving participant confidentiality during the research process, enabling us to conduct comprehensive analysis and make significant contributions to the study's goals. The data analysis stage entails a meticulous computation of descriptive statistics, particularly the mean and standard deviation. This method encompasses the evaluation of participants' selfreported language ability and students' perceptions regarding the influence of language on student's educational experience. These statistical measures offer both a summary of the central tendency and an understanding of the dispersion within the dataset.

Formulas

 $\frac{\sum X}{N}$

Mean (X) is computed using the formula

Standard Deviation (σ) is calculated with the formula $\sqrt{\frac{\sum (X-\bar{X})^2}{N}}$

Inferential Statistics

The inferential statistics phase involves a rigorous correlation analysis. Through the computation of Pearson correlation coefficients, the study quantifies the strength and direction of relationships between language proficiency, academic performance, and the perceived impact on the educational experience. This sophisticated analysis aims to reveal intricate patterns and associations within the dataset.

Formula

The formula $r = \frac{\sum (X_i - \bar{X})(Y_i - \bar{Y})}{\sqrt{\sum (X_i - \bar{X})^2 \sum (Y_i - \bar{Y})^2}}$ is employed, where *r* ranges from -1 to 1, offering nuanced insights into the nature of correlations.

The study further employs regression analysis, a method that goes beyond correlation by determining the predictive power of language proficiency on academic performance. This is achieved while controlling for relevant variables, facilitating a nuanced understanding of the multifaceted factors influencing academic outcomes.

Formula

The regression formula $Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \dots + \beta_n X_n + \epsilon$ encompasses the dependent variable (Y – academic performance), independent variables (X_1, X_2, \ldots, X_n - language proficiency and potentially others), the intercept $(\beta_1, \beta_2, \dots, \beta_n)$, and the error term (ϵ) .

RESULT

The purpose of the demographic component of the questionnaire was to collect crucial data about the participants in order to provide a framework for comprehending the influence of language on students' educational experiences. The survey encompassed inquiries pertaining to age, academic department, academic term, and the medium of instruction. These specific pieces of information are essential for recognizing any trends, connections, and deviations in the answers, providing a significant understanding of the various characteristics of the participants within the academic environment.

Question	Response Options	Number of Respondents
What is your age?	[]20-24	35
Faculty and Semester	[]Humanities []2[]4[]6	Humanities 2nd semester: 8 Humanities 4th semester: 10 Humanities 6th semester: 5 Other faculties: 12
Language of Instruction	[] Bahasa Indonesia [] Minang [] Java [] Batak [] Others	Bahasa Indonesia: 15 Minang: 5 Java: 7 Batak: 3 Others: 5

Table 2: Demographics

The demographic section offers a concise overview of the participant characteristics. With a mean age of 22 and a predominant concentration in the 20–24 age bracket, the sample demonstrates a representative composition of the typical age cohort found in a university environment. The distribution of students between faculties and semesters demonstrates a heterogeneous group, particularly within the Humanities faculty, where students are at various stages of students' academic progression. The participation of students from different faculties enhances the diversity, leading to a more thorough picture of the university's demographic landscape.

The statistics about the language of instruction highlight the wide range of languages used inside the university, demonstrating its linguistic variety. The prevalence of Bahasa Indonesia, along with Minang, Java, Batak, and other languages, highlights the necessity for a detailed examination of language dynamics. This information establishes the context for examining the influence of language on the educational experiences of students from different linguistic origins, laying the groundwork for the following portions of the study.

Others, The Language Proficiency component of the questionnaire aims to assess participants' subjective evaluation of student's language skills using a rating scale ranging from 1 to 5. This measure enables respondents to subjectively assess students' language proficiency, offering insights into student's self-assurance and perceived ability. The data gathered in this section will aid in comprehending the participants' degrees of familiarity and competency with the language(s) they employ in students' academic endeavors.

Table 3: Language Proficiency

Question	Response Options	Number of Respondents
Rate your self-perceived language proficiency (1-5)	[]1[]2[]3[]4[]5	1: 2 2: 5 3: 8 4: 10 5: 10

The language skill table represents the participants' subjective assessment of student's language skills, measured on a scale ranging from 1 to 5. The analysis of the replies indicates a predominant feeling of assurance among the participants regarding students' language skills, since a significant proportion of 10 students each rated themselves at proficiency levels 4 and 5. This implies a widespread sense of confidence and ease in handling academic assignments that require language proficiency. In addition, the fact that there are 8 students who rated themselves at level 3, 5 students at level 2, and 2 students at level 1 suggests that there is a range of skill levels among the participants. The presence of diverse language competencies among students is essential for comprehensively assessing how these views can influence students' academic achievement and overall educational experiences. The intricate comprehension acquired from these self-reported levels of expertise will play a crucial role in future analyses as it investigates potential connections between

language proficiency and other elements of the individuals' academic experiences. This study seeks to identify any correlations between individuals' self-perceived language competency and students' academic achievement. By doing so, it intends to further understanding of how language skills and educational experiences interact in a university environment.

Moreover, the Impact section of the questionnaire examines participants' perceptions regarding the effect of language proficiency on students' academic achievement and overall educational experience. This part tries to elicit subjective viewpoints on the significance of language in influencing academic outcomes and the wider educational experience by employing a Likert scale for the first question and a categorical response for the second. The data gathered in this area will yield useful insights into participants' perceptions of how language proficiency affects students' overall university experience.

Question	Response Options	Number of Respondents
To what extent do you believe	[] Not at all [] Slightly []	Not at all: 3 Slightly:
language proficiency affects your	Moderately [] Very much	5 Moderately: 7 Very
academic performance?	[] Extremely	much: 10 Extremely: 10
How do you perceive the impact of language on your overall educational experience?	[] Positive [] Neutral [] Negative	Positive: 12 Neutral: 8 Negative: 15

 Table 3: Perceived Impact

The perceived impact table summarises participants' subjective evaluations of how language proficiency affects students' academic performance and overall school experience. The distribution of responses to the initial inquiry, evaluating the influence on scholastic achievement, displays a range of viewpoints. A substantial proportion of students, precisely 10 individuals each, hold the belief that language competency plays a highly influential role in moulding students' academic achievement. This acknowledgement highlights the increased awareness among participants about the vital role that language plays in achieving academic success. In contrast, 3 students believe that language proficiency has no impact at all, and 5 students perceive only a differing viewpoints suggest different levels influence. These minor of acknowledgement of the correlation between language proficiency and academic success.

Regarding the second question, which investigates the influence of language on educational experiences, the replies are divided into "positive," "neutral," and "negative" categories. The substantial proportion of students (15 individuals) who reported a "negative" impact indicates that a major segment of the participants experiences obstacles or hardships in students overall educational experience pertaining to language. Conversely, 12 students indicate a "positive" effect, highlighting that certain participants perceive language as a beneficial factor in student's educational experiences. The "neutral" responses from 8 students suggest a state of equilibrium where language does not have a substantial impact on students' entire educational experience.

The various viewpoints provide a foundation for an in-depth examination, in which it will investigate possible connections between these outlooks and other elements of the participants' educational encounters. The objective is to reveal trends and insights that will enhance understanding of how language influences the higher education experience for these individuals.

DISCUSSION

The survey results offer a thorough and detailed analysis of the complex connection between language proficiency and its perceived influence on both academic achievement and the wider educational experiences of university students. A large majority of the surveyed participants expressed a strong belief in student's language abilities, with most rating themselves as proficient at levels 4 and 5. The students' confidence indicates that they are well prepared to handle the linguistic challenges that come with students' academic endeavours. (Arnbjörnsdóttir, 2020; Wollscheid et al., 2021) studies explain that this promotes successful communication and understanding.

Nevertheless, the poll uncovers a significant level of inconsistency in how students view the influence of language skills on students' academic achievements. Although a considerable number of participants recognize a notable effect, there are those who see a low or moderate influence (S. Chen et al., 2023). This suggests a range of viewpoints impacted by personal characteristics and the specific language requirements of student's respective courses. This difference highlights the importance of adopting a sophisticated strategy for providing language assistance, acknowledging the personalized nature of students' experiences and learning preferences.

The investigation of language's impact on overall educational experiences yields the most captivating insight. A significant proportion of individuals indicate a "negative" impact, indicating obstacles or hardships related to language usage throughout students' academic experience.

This revelation raises fundamental inquiries regarding the nature of these hurdles, including potential obstacles in comprehension, difficulties in actively participating in conversations, or hindrances in completing projects. Understanding these particular challenges is essential for institutions to devise focused interventions that tackle the underlying reasons for language-related barriers and establish more conducive learning environments.

The findings have far-reaching consequences for instructional initiatives. The acknowledgement of the perceived influence of language competency on academic experiences emphasizes the need for customized language assistance programmers (Hancock et al., 2023) and resources that are specifically created to meet the varied linguistic requirements of students.

Furthermore, the presence of diverse languages among the students highlights the significance of recognizing and adapting to different languages used for teaching, in line with the principles of inclusive education that aim to establish learning environments that meet the needs of all students.

Nevertheless, it is crucial to recognize the constraints of the study, such as the dependence on self-reported information and the relatively limited sample size. Subsequent research efforts could strengthen the reliability of these findings by including larger and more varied groups of participants.

Conducting qualitative investigations on the particular language difficulties encountered by students can provide a more in-depth understanding of students' experiences, helping to develop a more complete comprehension of the intricate nature of language skills and how they affect academic progress.

CONCLUSION

A thorough examination of the survey findings reveals the complex interactions related to language proficiency and its perceived influence on the academic paths of college students. A prominent issue that arises is the participants' general assurance in students' language abilities, as seen by the large majority of students who rated themselves at proficiency levels 4 and 5. The collective confidence expressed by the surveyed students suggests that they are well prepared to handle the language requirements of students' academic endeavours. This readiness enables them to communicate more clearly and understand the subject matter more deeply. Nevertheless, the survey reveals a fascinating range of viewpoints regarding the perceived influence of language proficiency on academic achievement. A considerable effect is acknowledged by a large group of students, while a moderate or slight influence is perceived by a noteworthy subgroup of students, adding a level of complexity influenced by personal circumstances and the specific language demands of different academic courses. The presence of this variability highlights the need for customized language support solutions that acknowledge the unique nature of students' experiences and preferences in learning. The most notable discovery arises from the investigation of language's wider influence on overall educational experiences. A significant proportion of participants indicate a "negative" impact, indicating the presence of obstacles and complexities associated with language usage throughout students' academic experience. This observation triggers crucial inquiries into the precise characteristics of these concerns, encompassing potential difficulties in understanding, barriers to active engagement in discussions, and hindrances in completing projects. Understanding these problems is important for schools to come up with specific solutions that get to the root causes of language barriers and make the classroom a friendlier and more welcoming place for everyone. The insights derived from these studies have broader implications for informing comprehensive educational practices, going beyond individual experiences. The acknowledgement of the perceived influence of language competency on academic experiences highlights the urgent requirement for tailored language assistance programmes and resources that are carefully crafted to cater to the varied linguistic requirements of students.

Furthermore, the presence of different languages among the students emphasizes the significance of recognizing and adapting to the many languages used for teaching. This commitment is in perfect harmony with the ideals of inclusive education, which strive to establish learning environments that go beyond language boundaries and respond to the distinct requirements of every student. Recognizing the constraints of the study, such as the dependence on self-reported information and the relatively small sample size, there is a need for larger and more diverse participant groups in future research endeavours. By integrating qualitative methodologies, a more profound exploration of the precise language-related obstacles encountered by students could result in more profound observations, enhancing overall comprehension of the intricate connection between language proficiency and academic achievement. Overall, the survey results highlight the urgent requirement for specific and focused support systems in the higher education sector. Institutions can enhance the educational experiences of a diverse student population by acknowledging and addressing the complex connection between language proficiency and academic success. Inclusive learning environments that go beyond linguistic barriers can achieve this.

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