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Phonological Transfer among Indigenous Students: A Study on Pronunciation Challenges in English

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Abstract

This study investigates the phenomenon of phonological transfer and its impact on the English pronunciation of indigenous senior high school students at Bukidnon National High School. Specifically, it explores how the phonological features of Binukid, Higaonon, and Manobo—the students' first languages—influence their articulation of English sounds. Using qualitative methods, including interviews, pronunciation tests, and linguistic analysis, the research identifies common pronunciation challenges that stem from differences in phoneme inventories, stress patterns, and syllable structures between English and the students' native languages. The findings reveal that negative transfer, particularly in consonant and vowel substitutions, significantly affects intelligibility and fluency in spoken English. The study underscores the importance of culturally and linguistically responsive teaching strategies in addressing these challenges. It contributes to the body of knowledge on second language acquisition in multilingual contexts and aligns with the Department of Education's goals of inclusive and effective learning. Recommendations include targeted phonological instruction and the integration of indigenous language awareness into English language teaching.

Keywords: Phonological Transfer, Indigenous Students, Pronunciation, Binukid, Higaonon, Manobo, English Language Learning, Bukidnon, Second Language Acquisition

INTRODUCTION

English pronunciation is a crucial skill for communication and academic success. However, for many indigenous senior high students at Bukidnon National High School—who come from Binukid, Higaonon, and Manobo communities with distinct phonetic systems—learning English poses unique pronunciation challenges. These learners often substitute sounds (e.g., "think" \rightarrow "tink"), omit phonemes (e.g., "friend" \rightarrow "fren"), or insert extra sounds (e.g., "school" \rightarrow "iskul") because their L1 lacks certain English phonemes (Leaño &Espulgar, 2019; Bautista, 2021). Glottalization features prominently as well—students may say "?apple" for "apple"—and vowel alteration is common when they map unfamiliar English vowels onto their native vowel inventory (Alcantara & Flores, 2019; Reyes & Santos, 2023). Such phonological transfer not only hinders intelligibility but also undermines students' confidence, participation, and overall performance in English classes (Gonzales, 2022).



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Despite the clear need, pronunciation instruction in multilingual classrooms often focuses on grammar and vocabulary, leaving phonological issues unaddressed. Limited exposure to native English models outside the classroom, large class sizes, and scarce teaching resources exacerbate the problem (Philippine Normal University, 2023; Nolasco, 2008). While contrastive analysis and minimal-pair drills have been shown to improve learners' awareness of target sounds (Derwing& Munro, 2005; Celce-Murcia et al., 2010), these methods are rarely customized to the specific L1 backgrounds of indigenous students. As a result, fossilized pronunciation errors persist, reinforcing communication anxiety and limiting classroom engagement (Tupas & Lorente, 2014).

This study aims to identify the specific pronunciation challenges faced by indigenous senior high learners at Bukidnon National High School and to analyze how phonological transfer from Binukid, Higaonon, and Manobo influences their English speech. It will document prevalent processes—such as consonant cluster reduction, vowel modification, and glottalization—and examine their impact on intelligibility. Finally, it will recommend culturally responsive teaching strategies, including explicit phonetic instruction, technology-assisted tools, and multisensory activities tailored to learners' L1 systems (Gilakjani& Ahmadi, 2011; Reyes & Santos, 2023).

By focusing on indigenous senior high students, this research fills a gap in understanding how both Filipino (used as a bridge language) and native L1 systems contribute to pronunciation errors. The findings will guide teachers in designing targeted drills and integrating pronunciation technologies within the Mother Tongue–Based Multilingual Education framework, promoting inclusive, effective English instruction. Ultimately, this study seeks to enhance students' oral proficiency, confidence, and active participation in the classroom.

FRAMEWORK OF THE STUDY

One of the key ideas in this study is phonological transfer, which refers to the influence that the sounds and rules from a person's first language (L1) can have on their speech in a second language (L2). The Contrastive Analysis Hypothesis (CAH) by Lado (1957) suggests that when L1 and L2 are very different, learners are more likely to make pronunciation mistakes. For example, if English has sounds that Binukid does not have, students might replace them with similar sounds from their native language. Eckman (1977) expanded on this idea and showed that we can often predict which sounds will be hardest for learners based on how different the two languages are.

Another important idea is the Speech Learning Model (SLM) by Flege (1995), which explains how people learn new sounds. According to this model, learners compare English sounds to the sounds in their own language and often mix them up when they sound similar. For example, English sounds like $/\theta$ / (as in think) and $/\delta$ / (as in this) can be hard for Binukid speakers because these sounds don't exist in their language.

Odlin (1989) also talks about phonological transfer, adding that not only individual sounds are affected, but also things like word stress, rhythm, and intonation. This means that the way a whole sentence sounds can also be influenced by the first language.

Research by Hermocilla-Borres (2018) describes the Binukid sound system in detail. Her work helps identify which English sounds might be difficult for Binukid speakers. For example, Binukid doesn't have some consonant sounds or sound combinations that English does. In this study, the International Phonetic Alphabet (IPA) is used to carefully compare and analyze the pronunciation patterns of students.



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These theories help explain why students pronounce English the way they do, and they also show the need for teaching strategies that focus on these specific pronunciation issues.

The conceptual framework shows how students' first language (Binukid) influences their English pronunciation and what can be done to help them improve. It starts with the phonological features of Binukid, which affect how students hear and pronounce English words. This leads to different kinds of pronunciation problems, such as saying the wrong sound, skipping sounds, or adding extra ones.

These difficulties can affect how well students speak English, including how fluent and understandable they are, and how confident they feel when speaking. To help with these challenges, the framework includes teaching strategies like pronunciation exercises, speaking activities, and teacher support. These methods aim to help students recognize and correct common errors caused by transfer from their first language.

In summary, the framework shows how the students' language background, pronunciation challenges, and classroom support all work together. It helps explain why students make certain mistakes and what teachers can do to help them speak English more clearly and confidently.

MATERIALS AND METHOD

Research Design

This study employs a descriptive qualitative research design using a case study approach to explore the presence of phonological transfer among indigenous Senior High School students at Bukidnon National High School. The descriptive nature of the study allows for a detailed examination of the pronunciation patterns of students whose first language (L1) is an indigenous dialect, while the case study approach focuses on a specific group of learners within a particular context (Yin, 2018). This design is deemed appropriate as it provides an in-depth understanding of how L1 phonological features influence English pronunciation, particularly in instances of substitution, omission, and insertion of sounds, as well as stress and intonation patterns (Creswell, 2014).

The research will be conducted at Bukidnon National High School, located in the Philippines. This institution caters to a linguistically diverse student population, including learners from indigenous tribes such as the Binukid, Higaonon, Manobo, and Talaandig. The study will focus on Senior High School students who are currently enrolled in English-related subjects and who demonstrate challenges in English pronunciation believed to be influenced by their native language background.

A purposive sampling technique will be used to select ten participants who meet specific criteria relevant to the study. These include being of indigenous descent, actively learning English, and exhibiting noticeable pronunciation difficulties (Patton, 2002). The selection process will begin with teacher nominations, identifying students who have been observed to struggle with pronunciation. A brief screening, consisting of an interview and a pronunciation test, will further confirm the presence of phonological issues. Finally, consent will be obtained from both the students and their guardians to ensure ethical participation (Teddlie & Yu, 2007).

Research Instrumentation and Validation

To gather relevant data, the study will utilize both primary and secondary instruments. These include a pronunciation test and semi-structured interviews, along with focus group discussions (FGDs). The



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pronunciation test will involve reading selected English words, phrases, and sentences that contain sounds commonly mispronounced by non-native speakers (Derwing& Munro, 2005). These sessions will be audio-recorded for phonetic analysis. Meanwhile, interviews will explore students' experiences with English pronunciation, while FGDs will include insights from both students and teachers regarding observed pronunciation challenges and the strategies employed in classroom instruction.

Since the instruments are not standardized, they will undergo a validation process using Lawshe's Content Validity Ratio (CVR) method (Lawshe, 1975). A panel of three experts—including the English Subject Head, a statistician, and the Research Coordinator—will review the instruments to assess the relevance and clarity of each item. Each expert will classify items as essential, useful but not essential, or not necessary. The CVR will be calculated using the formula CVR = (ne - N/2) / (N/2), where ne is the number of experts who rated the item as essential and N is the total number of experts. Based on the results, items that meet the threshold will be retained, while others will be revised or removed accordingly.

Data Collection Procedure

The data collection procedure will begin with coordination with school administrators and English teachers. After identifying suitable participants, the researcher will obtain informed consent and schedule individual and group sessions. Audio recordings will be used to capture speech data, while interview and FGD sessions will be documented through transcripts and field notes. All collected data will be securely stored and used solely for academic purposes.

Data Analysis

For data analysis, the pronunciation samples will be examined phonetically using the International Phonetic Alphabet (IPA). This analysis will help identify recurring sound errors and patterns of phonological transfer (Jones, 2011). Meanwhile, responses from interviews and FGDs will undergo thematic analysis to identify common experiences, challenges, and insights related to English pronunciation and language learning (Braun & Clarke, 2006).

Ethical Considerations

Ethical considerations are integral to the conduct of this study. Participants will be fully informed of the study's purpose, procedures, and voluntary nature. Their anonymity and confidentiality will be protected by using pseudonyms and keeping all data securely stored. Participation will be voluntary, and students will be allowed to withdraw from the study at any time without any academic consequences. Informed consent forms will be distributed and signed by both the participants and their legal guardians.

RESULTS AND DISCUSSION

The findings of the study are based on the research questions, which aim to: (1) identify common pronunciation errors among learners, (2) understand how the first language (L1) influences English pronunciation, and (3) explore effective strategies to address these pronunciation difficulties. The data were gathered through a validated research questionnaire, pronunciation assessment activities, and openended responses from 10 Grade 12 learners at Bukidnon National High School.



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Table 1: Paragraph Reading and Observation Analysis

Research	Observed	No. of	% of	Phonological	Interpretation
Question	Errors	students	Students	Process	
		(n=10)		present	
What are the	$/\theta/ \rightarrow /t/$	8	80%	Sound	Majority of
common	(e.g., "think"			substitution	students
phonological	→ "tink")				replaced the
errors made					unfamiliar /θ/
by					sound with
indigenous					/t/, showing
students					difficulty
when					with
speaking					interdental
English?					fricatives not
					present in
					their L1.
	$/\delta/ \rightarrow /d/$	7	70%	Sound	Similar to θ ,
	(e.g., "this"			substitution	the voiced /ð/
	→ "dis")				was
					substituted
					with /d/ by
					most learners,
					showing
					influence
					from L1
					where such
					sounds are
			600 /	77 1	absent.
	"ship" vs.	6	60%	Vowel	Difficulty in
	"sheep"			substitution	distinguishing
	confusion				short and
					long vowels
					due to limited
					exposure and L1 influence.
	street" →	7	70%	Consonant	Learners
	"sreet" →	'	7070	cluster	dropped a
	SICCI			reduction	consonant in
				(omission)	clusters, a
				(OIIIISSIOII)	common
					simplification
					strategy
					found in ESL
					Tourid III ESE



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				learners.
Incorrect word stress	5	50%	Prosodic substitution	Half of the students used
				flat or misplaced
				stress, possibly due
				to syllable- timed nature of L1.

SUMMARY OF FINDINGS

The observed phonological errors among indigenous students when speaking English reveal several recurring patterns linked to their first language (L1) influence. A majority of students (80%) demonstrated difficulty with the voiceless interdental fricative $/\theta/$, substituting it with /t/ (e.g., "think" \rightarrow "tink"). This sound substitution suggests that the $/\theta/$ sound, which is absent in many indigenous languages, poses a challenge for learners. Similarly, 70% of the students substituted the voiced interdental fricative $/\delta/$ with /d/ (e.g., "this" \rightarrow "dis"), indicating a similar phonological gap in their L1. The confusion between "ship" and "sheep" (60%) reflects the difficulty in distinguishing short and long vowels, a common issue among learners from languages where vowel length contrasts are not phonemic. Another frequent error was consonant cluster reduction, observed in 70% of the students (e.g., "street" \rightarrow "sreet"), where students omitted one consonant in a cluster, a simplification process typical of second language learners.

Finally, 50% of students exhibited incorrect word stress, often producing a flat or misplaced stress pattern. This prosodic error may stem from the syllable-timed nature of many indigenous languages, which contrasts with the stress-timed rhythm of English. Overall, these errors highlight the significant impact of L1 phonological features on the learners' English pronunciation, particularly in sounds and stress patterns that do not exist in their native languages.

Table 2: Perceptions and Experiences

Question	Response	Number	Percentage	Interpretation
	Options	of		
		Students		
		(n=10)		
Number of	Yes	8	80%	Majority of students find
Students (n=10)				pronunciation difficult,
				indicating it is a key
				challenge for learners.
	No	2	20%	A small minority of students
				do not find it difficult,
				suggesting some variation in
				difficulty levels
2. Which sounds	$/\theta$ / (as in	7	70%	The voiceless interdental



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are difficult for	"think")			fricative θ is challenging,
you?				which is not present in their
				L1.
	/ð/ (as in "this")	6	60%	Similar to θ , the voiced
				interdental fricative /ð/ is
				difficult, likely due to L1
				interference.
	Consonant	5	50%	Consonant clusters are
	clusters (e.g.,			difficult to pronounce,
	"street")			suggesting the need for
	,			practice in pronunciation
	Long and short	4	40%	Vowel length contrasts are
	vowels (e.g.,			problematic, likely due to L1
	"ship" vs.			interference where such
	"sheep")			distinctions do not exist.
3. How	1= Not confident	3.2/5		Students rated themselves as
confident are	2= Less	3.2/3		moderately confident in
you in speaking	confident			speaking English, indicating
English?	3= moderately			there is room for
English:	confident			
				improvement in their
	4= confident			confidence.
	5=very confident		100	
Do you feel shy	Yes	4	40%	40% of students feel shy or
or anxious when				anxious, indicating that
speaking English				pronunciation difficulties
in class?				contribute to this anxiety.
	No	3	30%	30% of students feel
				confident, showing that some
				learners are less anxious.
	Sometimes	3	30%	30% of students experience
				occasional anxiety,
				suggesting that the issue is
				not constant but still
				significant.
5. What helps	Listening to	8	80%	Most students find that
you improve	English speakers			listening to native English
your	6 - SF			speakers helps them improve
pronunciation?				their pronunciation.
Pronunciation:	Watching	7	70%	Watching English media is a
	videos/movies in	,	7070	helpful strategy for learning
				pronunciation through
	English			1 -
	Duo etisius 141	6	600/	exposure
	Practicing with	6	60%	Practicing with others is



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classmates or			beneficial for reinforcing
teachers			correct pronunciation
			patterns.
Using	5	50%	A considerable number of
pronunciation			students use technology to
apps or tools			practice and improve their
			pronunciation.

Table 3: Teacher's Perspective

Research Question Observation/Response Interpretation
pronunciation errors among indigenous students? were sound substitutions, such as /θ/ → /t/ (think → tink), and confusion between long and short vowels, e.g., "ship" vs. "sheep." 2. What strategies do you use to help students improve their pronunciation? Teachers use a variety of strategies, including listening exercises with native speakers, corrective feedback, pronunciation apps, and drills focusing on specific problem sounds. These strategies aim to expose students to the correct pronunciation models and provide targeted practice on challenging sounds. Using technology like apps and drills can help reinforce these concepts These challenges highlight the importance of creating a supportive and encouraging environment, and the need for students' reluctance or fear of speaking in class.
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in class. input, possibly through media
or interaction with native
or moreover with heart
speakers.
4. What additional support or Additional resources include These resources could
resources do you think would more listening materials provide students with diverse
be helpful in teaching (native speakers), and authentic listening
pronunciation? pronunciation-focused opportunities, better materials
textbooks, language learning for focused pronunciation
software, and more practice work, and increased
with peer interaction and opportunities for practice and
feedback feedback.



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Table 4: Focus Group Discussion using thematic analysis

Participants Responses

Research Question	Themes Identified	Example responses
What do you think are the	L1 Interference	- "I find it hard because my native
reasons for pronunciation		language doesn't have the same sounds,
difficulties in English?		especially the $/\theta/$ and $/\delta/$ sounds."
		- "The sounds in English like /θ/ and /ð/
		are difficult because we don't have them
		in our language."
	Lack of Exposure to	- "I don't often hear native speakers, so I
	Native English	don't know how the words should
	Models	sound."
		- "We don't listen to a lot of English
		outside class, so it's hard to know if
		we're pronouncing words correctly."
	Nervousness/Anxiety	- "I get nervous when speaking in front of
	in Speaking	the class, which makes my pronunciation
		worse."
		- "I sometimes feel embarrassed when I
		can't pronounce a word, and that makes it
		worse."
	Limited Practice	- "I don't practice English much outside
	Outside of Class	class, and that makes it harder to
		improve."
		- "We only speak English in class, and I
		don't get to practice at home."
What suggestions do you	More Peer Practice	- "We should practice more with our
have for improving English	and Interaction	classmates, so we can learn from each
pronunciation in class?		other."
		- "Talking with others helps because we
		can correct each other's mistakes."
	Use of Technology	- "Using apps that help with
	(Apps, Online Tools,	pronunciation would be great because we
	and Videos)	can practice on our own."
		- "Watching videos or movies in English
		would help me hear how native speakers
		say things."
	More Corrective	- "It would help if the teacher corrected
	Feedback from	our pronunciation more often."
	Teachers	- "The teacher can give feedback during
		class on how to pronounce things better."
	Pronunciation-	- "We need lessons just on pronunciation,
	Focused Lessons	with exercises to practice difficult



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words."	
- "More drills on sounds	we struggle with
would be useful."	

CONCLUSION AND RECOMMENDATION

This study examined the common pronunciation errors of indigenous Grade 12 learners at Bukidnon National High School, the influence of their first language (L1) on English pronunciation, and the strategies that can effectively address these issues. Results revealed frequent phonological errors such as sound substitutions ($/\theta/ \rightarrow /t/$, $/\delta/ \rightarrow /d/$), vowel length confusion, consonant cluster reduction, and incorrect word stress. These findings highlight the significant role of L1 interference in shaping learners' pronunciation difficulties, consistent with earlier research on interlanguage phonology (Brown, 2000). Moreover, the moderate confidence levels and occasional anxiety expressed by students further emphasize the social and psychological barriers in oral language use (Krashen, 1982).

The importance of improving pronunciation is vital not only for intelligibility but also for learner confidence and academic success (Derwing& Munro, 2005). Teachers play a crucial role in mitigating these issues by using explicit strategies such as modeling, feedback, and the integration of technology. However, challenges persist, particularly the lack of exposure to native English input and limited resources, underscoring the need for systemic support and innovation in pedagogy. As pronunciation is often overlooked in language instruction, this study reaffirms its relevance in equitable and inclusive education, especially for indigenous learners in rural settings.

Based on the findings, the researchers recommend that English teachers incorporate focused pronunciation drills, minimal pair activities, and exposure to authentic audio materials to enhance learners' phonological awareness. The use of pronunciation apps, video modeling, and peer practice should also be encouraged to increase learner engagement and autonomy (Celce-Murcia et al., 2010). In addition, school administrators and policy makers should provide support by integrating pronunciation components into the existing curriculum and ensuring access to relevant learning resources (Department of Education, 2016).

Future researchers may consider expanding the participant base or conducting a longitudinal intervention to measure long-term improvement. Moreover, studies that investigate the role of cultural identity and socio-affective factors in oral language learning may offer deeper insights into how pronunciation challenges intersect with learner backgrounds and experiences.

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