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THE ROLE OF GEOGRAPHY IN SHAPING PIDGIN LANGUAGE CONTACT AND DIFFUSION

Tehreem ZAHRA

Independent Researcher
Email: tehreemzahra645@gmail.com

Francesco PERONO CACCIAFOCO

Xi'an Jiaotong-Liverpool University (XJTLU), School of Humanities and Social Sciences (HSS), Department of Applied Linguistics and Language Sciences (ALS), China
Email: Francesco.Perono@xjtlu.edu.cn

Abstract: *The diffusion and emergence of pidgin languages are highly determined by geographical factors, which determine the dynamics of social linguistic contact, trade, colonization and migration. This research paper explores the subject of the role of geography in the development and diffusion of pidgin languages by considering physical barriers, coastal access, trade routes and colonialism as geomorphological propensities that promote linguistic hybridization. This paper, by looking at case studies of famous pidgins, such as West African Pidgin English, Chinook Jargon, and Tok Pisin, demonstrates that environmental and spatial factors decide the need, structure, and development of contact languages. The findings reveal that geography does more to both constrain or facilitate communication but also shapes the sociolinguistic contexts that support pidginization. The research, therefore, adds to more general debates in linguistic geography; creole studies; and theories of language contact by highlighting the interaction between the human and spatial factors in the creation of simplified linguae francae.*

Keywords: Pidgin languages, contact of languages, linguistic geography, trade routes, colonization, diffusion.

1. INTRODUCTION

Pidgin languages adopt by simplifying a language system used when different groups that share no common language have to communicate, usually in trade setting, colonization facilities, slavery arrangement and migration arrangement (Holm, 2000). These contact languages are distinguished by a simplicity of grammar, as well as vocabulary and functional use, and they often represent *linguae francae* for the

multilingual environment (Sebba, 1997). Perhaps while sociopolitical and economic factors are central to pidgin formation, then geography is one of the most important but seldom studied determinants in their formation and spread. The physical map – coastlines, rivers, mountains, and trade centres – influences interpersonal contact such that pidgin development, stabilization and geographically diffusion are determined by the location and circumstances of the contact (Mufwene, 2001).

In the past, pidgins have been highly successful in geographically strategic locations such a port cities, colonial outposts, and trading centers. For example, West African Pidgin English developed in the Atlantic coast because of European trade and the transatlantic slave trade (Huber, 1999). Similarly, the Chinook Jargon in the Pacific north west developed from the intermingling of Indigenous people and European fur traders (Thomason & Kaufman, 1988). Geographical conditions of Papua New Guinea's highlands made its territory overturn competitive measures for spreading out Tok Pisin, a common language for the isolated linguistic groups was needed (Verhaar, 1995). These instances show the way that geography not only makes way for language contact, but also imposes the routes for language diffusion.

The spatial contexts play a key role in understanding when and how pidgin languages come into being, what their trajectory is and how they move about in regions. Due to their status as languages born out of need, pidgins arise in the geographically important areas of coasts, trade emporia, and frontiers, where those of people with mobility meet reversed languages. The investigation of places names via toponymy provides evidence of how human settlements, either, hampered or boosted by the physical environment, Scientific study of place names will help find where the past contact points were and provide the possible way of reconstructing the language interaction even in unwritten situations. The environment determines both the setting and the physical mechanism of languages interplaying. it defines the communities that interact with each other, level of interaction, and ultimate effect, on language development. Finally, geography becomes an important contender in the socio-historical stream which leads to the emergence of pidgin languages (Perono Cacciafoco & Cavallaro, 2023). The paper examines the effect of geographically defined sites and settlement patterns in the development of pidgin language, using toponymic research to describe their dispersion processes.

This paper examines the geographical factor in the development of pidgin languages, through looking at the impacts of physical settings on trade networks, migration patterns, and colonial enterprises. It also examines how geographical barriers or conduits like oceans, rivers, and urban points influence stabilization and dissemination even of pidgins. Analyzing case studies from diverse continents, this study points to the interplay between human mobility, limits of settled environment and linguistic innovation.

1.1 Geographical Determinants of Pidgin Formation

Coastal areas have previously been peripheries of pidgin growth out of their role as sites of maritime trade and colonization. The Indian Ocean trade routes, for instance, contributed to the development of pidginized forms of Arabic, Portuguese and Malay (Pearson, 2003). Just the same way, the Caribbean's plantation economies resulted to the development of creoles and pidgins from the forced movement of enslaved Africans (Arends, 1995). The ease of access to the coastlines enabled the European nations to

create free trading posts whereby pidgin grew into melting pots for all languages (McWhorter, 2005).

Rivers have been, in their own way, natural highways that facilitated trade and communication leading to pidgin development away from the coast. For example, the Mississippi River was a central point of Mobilian jargon among Native Americans tribes and European settlers (Drechsel 1997). The Niger Delta's intricate waterways made possible trade between Europeans and indigenous people thereby helping in the stabilization of Nigerian Pidgin in West Africa (Faraclas 1996).

Geographical isolation can sometimes protect and sometimes lead to pidginization. The steep highlands in Papua New Guinea created tremendous linguistic diversity, which was accommodated through adopting Tok Pisin as a national language (Sankoff, 1980). In contrast, the Andes also presented mountainous barriers which restricted the spread of these contact languages, thereby maintaining the linguistic predominance of Indigenous (Adelaar, 2004).

Colonial cities were quite frequently other great linguistic laboratories where pidgins were developing. A pidgin used for interethnic communication, the Bazaar Malay, for instance, grew out of Singapore's port (Lim, 2007). In the same way, Hong Kong's colonial history played a role in stabilizing Chinese Pidgin English (Baker, 1987).

Linguists have newly worked on ecological and spatial approaches to throw light on such processes illustrating how geography affects the creation of hybrid languages (Mufwene 2022).

a. The Seascape of Pidgin Genesis

In the past, maritime areas have turned out to be most suitable for pidgins' development. The port cities, as centers of international trade, accommodated environments wherein the elaboration of simplified contact languages became necessary. The Roman-based Mediterranean *Lingua Franca* of the European, Arab, and Ottoman merchants developed in the urban ports of Algiers and Venice, as reported by Selbach (2008). In the same spirit nineteenth-century Pacific Maritime Pidgin English facilitated relations between European sailors and the Pacific Indigenous people, which could shape the advent of modern. With the sea replacing isolation, it provided a space for constant communicative exchange.

Quite recently, academic work has broadened our understanding of how layout of coastal areas influenced the stability of pidgins. West African harbors, protected from the coastline, stalled long interaction between Europeans and Africans, leading to the deep persistence of pidgins. On the other hand, very few areas with no natural ports bore more ephemeral pidgins, like the Eskimo Trade Jargon in the Arctic, which was short lived (Van der Voort, 2018). The results of these studies show us how coastal topography contributed to the nature and long-term existence of maritime pidgins.

b. Rivers as Linguistic Highways

Inland waterways have also been pivotal in promoting the spread of pidgins, despite being largely overlooked. Eccentric river systems of prehistoric times functioned as paths for trade and thus stimulated the continuous contact between different language groups. The Mobilian Jargon of the Mississippi River basin, as Drechsel notes (1997), was a *lingua franca* for Choctaw, French, and Spanish traders. Recent archaeological

excavations in the Mekong River area show that trade pidgins were developing in market towns under Khmer, Chinese, and Tai languages influence, as highlighted by Enfield (2019).

Riverine pidgins are distinguished from the coastal varieties by the more extensive use of Indigenous words. Not only did urge the colonial Portuguese settlers for their needs, Lingua Geral of the Amazon, which was shaped by the Tupinambá, managed to save many indigenous words (Moore, 2020). This retention is likely attributed to the unequal power of the inland trade, in which European traders did not accept local knowledge of the rivers' routes and how the resources were to be distributed (Faingold, 2023). Such findings question the notion that pidgins reflect consistently the language characteristics of the colonial power.

c. Mountains: Barriers and Incubators

An unexpected duality is often discovered during studies of pidgins in mountainous areas. With barriers to isolation to preserve a linguistic mix, they may need a contact language with no single dominant vernacular. While creatural possibilities are incalculable, this terrain known as New Guinea's High Grounds has more than 1,000 languages upon which Tok Pisin emerged out of necessity for A pidgin using blends of Tibetan and Nepali was one of such trade languages used among many ethnicities living in the midst of towering Himalayan peaks (Turin, 2020).

One of the peculiarities of highland pidgins is its careful and careful slow accumulation of new words. Coastally used pidgins such as this one are characteristically flexible enough to accept European words; Hiri Motu (Papua New Guinea) on the other hand maintains its ancestral lexicon for prolonged periods (Dutton, 2010). Geographic isolation may be the foundation of this conservatism, as is reported by computational models studying language change in remote regions (Greenhill, 2017).

1.2 The Effects of Urbanization in Pidgins of the Present Day

Colonial cities were home to pidgin languages but contemporary urbanization has changed the face of these languages unanticipated. Pidgins in cities like Lagos and Nairobi, capital city of Nigeria and Kenya, respectively, have turned into identity-defining youth dialects. Nigerian Pidgin, which was originally a trade language, is now a symbol of urban youth culture, with English, Yoruban, and Igbo, used creatively in linguistic combinations (Oloruntoba-Oju, 2022). Sheng in Kenya is a mix of Swahili and English that has left the city streets and moved into the public conversation to challenge the idea of pidgins as socially unstable manners (Githiora, 2018).

The modern digital outlets have played a pivotal role in extending the tentacles of the pidgin languages. Digital communication networks strengthen transnational pidgin communities because Camfranglais, a Cameroonian pidgin, unites transcontinental groups scattered across European and North America (Nassenstein, 2020). Such migration from one digital platform to another undermines the conventional spatial boundaries, and thus evokes new debates about the direction of spatial linguistics.

Research is being conducted to explore the ways in which the migration driven by climate may lead to the creativity of pidgins. As sea levels rise driving Pacific Islanders to move, linguists expect climate refugee pidgins to be created that combine their

Indigenous languages with the languages of the host countries (Mühlhäusler, 2023). New varieties of Bislama are and Australian English words into their language (Tryon, 2022).

Oppositely, borders and war zones are becoming more and more places where pidgins are born. The situation of the Rohingya pidgin in Bangladesh's Rohingya refugee camps of joining Burmese, Bengali, and Arabic is one instance of the language variations as a result of involuntary migration. These developing trends require an update of the way we analyze what we call pidgins, incorporating the intricacies of contemporary geopolitics and environmental factors. A spatial framework is required, to explain how pidgins spread in different regions.

Geography's role in pidgin formation has never been secondary, but rather an active factor, that affects not only the formation and distribution, but also the very nature of pidgins. Whether pidgins survive or not, location is an important factor that applies to historical commerce paths, to modern forms of technological platforms. In order to understand this relationship properly, further research activities have to involve GIS techniques, ecological models as well as sociolinguistics, field investigation. The new pidgins emerging out of the reshaping of human mobility in the age of environmental change and global integration may challenge the existing scholarly models. Kosmeda and Kovtun (2024) explore in great detail how the experience of war influences the axiologically marked meanings of toponyms in Ukrainian language. In reaction to the Russian-Ukrainian war, the Ukrainian population has used humor by changing the names of places, inventing funny new city names (examples: Горим or Zombieland; лаптєстан), plus coming up with unique verbs (like чорнобаїти). Such examples show how language can be practical, shaped by situations and expressive, like the birth of Pidgin languages due to need, concision and their social roles. Similar to how Pidgins form using less wording, borrowing, different meanings and drawing analogies, many new terms in Ukraine are formed from less complex words, mix word elements and include strong emotion (Danilenko & Chepurny, 2022). Using "росія" in the lowercase is like some orthographic differences in Pidgin that people use to emphasize their identity. Creative approaches used in the language, including combining forms (*laptesan, *srascha), using suffixes and swapping meanings, are very much like what is seen in Pidgin development (Alexander Jankowicz, 2023; Danylo Biletskyi, 2023). Ukrainian wartime jokes and Pidgin are both created by people as informal ways to talk, write and express themselves more clearly, since regular language fails when pressure or war is involved. This way, the article by Kosmeda and Kovtun not only explains wartime onomastics but also gives a model for analyzing how conflict creates new words and languages, as is the case with Pidgin languages.

In a study of Polish border regions, Kurek (2024) explains how particular names, mostly Lemko and Wallachian, become words that people in the region have and use in common. Named after historical language contacts, these terms are used to express how people relate to each other and show their collective identity (Kurek, 2024). It is much like Pidgin which forms when people with different languages come into close contact over long periods. Just like Pidgin evolves by mixing words, pronunciation and meanings to meet immediate purposes (Mufwene, 2008), the dialects in Poland also pick up Lemko terms such as kiczora, kamienik and koszar, because of daily interactions and intermarriage (Kurek, 2003; Pawłowski, 1975). Since the main language that Lemko speakers use is Polish, this resembles the imbalanced conditions of colonial contact that produced Pidgins (Miodunka, 2003). Communities native to the region did not simply take words, but rather altered the sounds and meanings to fit their own needs in forms

such as Kamyniec and Marcelicha (Kurdyła, 2011). Likewise, places in the Carpathians such as Krynica, Smerekowiec, and Magura became more widely used and were sometimes repackaged for use in regional marketing like Pidgin phrases do (Kurek, 2018; Rieger, 1995). The creation of mixed naming practices in Beskid Niski and Sądecczyzna points to the usual processes of reducing words, borrowing and generalizing meanings which are also main features of Pidgins (Todd, 1990). Also, the way -icha, -cia and -cio are added to names in the language (e.g., Dańcia, Romcio) suggests that this process is as productive as Pidgin affixation in marking family members or close friends (Kurzowa, 1975). Language always grows through the natural creativity of people, needed to communicate and brought about by living around each other, not by official design. So, his research gives us useful examples of the social and structural background of how Pidgin began and developed.

Březinová (2024) studies how birth names are regarded in rural and urban areas in the Czech Republic, pointing out how identity, stereotypes and social signaling play a role in naming practices there. Research indicates that naming people in a certain way (such as "rural Anna" and "urban Tereza") is due to common cultural memories, traditional habits and information presented in media. Its occurrence in Pidgin languages also demonstrates that both vocabulary and grammar are affected by what people in different groups actually do and say (according to Mufwene, 2008). Like Pidgin, Czech names evolve when society and language change, so they are often detached from their actual meaning and re-meaning used in different regions (Knappová, 2008; Aldrin, 2017). People naming their children Marie or Josef where villages are common and using more up-to-date or foreign names in cities, reflects how tradition can be passed on in Pidgin as part of solidarity and how influence shifts toward prestige can change the language as well (Lieberson & Bell, 1992; Pilcher, 2016). Naming also responds to laws and societal rules just like Pidgin is structured by historical forces, Czech culture follows regulations set by the government (Act No. 301/2000) and customs (Knappová, 2017; Dvořáková, 2021).

Another point is that whilst using a name like "Anna" more broadly may make it seem less individual, insignificant or fixed, that happens a lot in Pidgin jargon (semantic bleaching) (Obasi et al., 2019). Collective identity, overcoming barriers in speaking and coping with changes in society are the roles the name systems and Pidgin languages share, showing how they spread similarly (Mateos, 2014; Coates, 2017). Because of this, Březinová's results help explain how both ethnic names and Pidgin phrases can assume meaning in social and political life for people living in multilingual and multicultural places.

The mix of English, Hawaiian and Portuguese in Hawaiian Pidgin reflects who was working on the plantations (Siegel, 2008). Although West African Pidgin English was shaped by the colonies, its foundation still includes elements of West African languages (Mufwene, 2001). They confirm that geography in the forms of war, borders or rural-urban divides strongly influences the development of pidgins through contact, need and competition among groups. This paper studies these processes to highlight the importance of geography in spreading pidgin languages.

Research Objectives

1. To explore the relation between certain geographical environments (maritime, riverine and mountainous) and pidgin language formation.

2. To study the ways trade networks and colonial settlements are responsible for shaping the language features of pidgin languages.

3. In order to compare the preservation/expansion of pidgin languages because of geographical barriers and pathways.

Research Questions

1. What is the shaping effect that physical geographical marks (coasts, rivers, mountains) have on the development and spread of pidgin languages?

2. What part do trade routes and colonial urban centers play in the structural development of pidgin languages?

3. What effect does geographical isolation as opposed to connectivity entail on the stabilization and diffusion of pidgin languages?

2. METHODOLOGY

The present study makes use of a mixed-method approach and focuses on the way in which geography influences the origins and diffusion of pidgin languages, applying a blend of qualitative and quantitative methods to achieve an overall understanding. The research design is anchored on a comparative case study approach involving three geographically separate pidgins: West African Pidgin English (coastal/trade based), Chinook Jargon (riverine/trade based), and Tok Pisin (island/plantation based). These cases were selected to reflect different environmental and sociolinguistic settings in order to permit comparing how the physical geography affects the outcomes of language contact.

Data collection is from primary and secondary sources. Primary sources can be found in written historical records; such as colonial records or trade logs or mission records and letters, which would highlight early Pidgin usage and sociopolitical conditions of the language's development. Corpora of archived pidgin samples are linguistically analyzed to trace a structural evolution, and then mapped as geospatial data that include trade route, colonial settlement and topography features using GIS tools to visually correlate the language spread to geographical barriers and conduits. Secondary sources include academic literature ranging from work on pidgin linguistics to creole studies and historical geography and, where available, sociolinguistic surveys to analyze contemporary pidgin usage patterns.

The analytical phase brings together three major methods. First, the geospatial analysis uses the GIS mapping to superimpose the linguistic distribution over geographical markers in order to determine the linkages between the environmental factors (proximity to coasts and rivers etc.) and the pidgin diffusion. Statistical approaches test the strength of these relationships in particular context, that is, lexical borrowing and grammatical simplification. Second, linguistic analysis reviews the structural properties of every pidgin, contrasting phonological, syntactic, and lexical patterns in order to identify the ways in which contact environments influenced their formation. Specific attention is paid to the substrates, which makes it clear how indigenous languages relate to colonial or trading languages. Third, a historical-sociolinguistic analysis decodes colonial archives and travel narratives in an attempt to recreate the environment of pidgin emergence, drawing attention to the functions of trade networks and urban settings as areas of language contact.

There are theoretical frameworks to ground every phase of analysis. Linguistic geography (Chambers & Trudgill, 1998) is a foundation for a spatial mapping of the spread of pidgin, whereas language contact theory (Winford, 2003) is a guide to the investigation of structural hybridization. World-systems theory (Wallerstein, 1974) situates results in a larger catalog of historical episodes of colonization and economic interaction by correlating macro-forces to micro-language outcome.

Potential shortcomings of the study include possible lack of the historical evidence especially for early pidgins which were not often recorded. Colonial sources are also likely to contain biases and therefore should be critically analyzed. Furthermore, modern pidgins might have changed so much from the form that existed historically making direct comparisons difficult. However, in the face of such difficulties, the methodology guarantees a strong, interdisciplinary investigation. Expected outcomes include determining important geographic determinants of pidginization, tracing the consequences of trade and Colonialism on linguistic structures, and constructing a comparative model of pidgin diffusion in isolated and connected imperials. This research attempts to deepen the understanding of how human-environment interactions stimulate language change by the combination of spatial, linguistic, and historical dimensions.

Using a mixture of methods helps the study produce stronger outcomes than using just one. Use of geospatial analysis, examining languages and studying historical sociolinguistics gives the research a full picture of what influences pidgin formation. Studying West African Pidgin English, Chinook Jargon and Tok Pisin using the comparative case study supports conclusions about how the environments in each region influence the growth of the languages. Thanks to Geographic Information Systems (GIS), linguistic diffusion can be connected to important global factors such as trade, colonization and geographical obstacles which supports the evidence that geography shapes language expansion. The use of historical books, trade logs, and missionary accounts in combination with linguistic and socio-linguistic surveys gives a reliable picture of changes in the language's form over the years. Besides, using recognized frameworks such as linguistic geography and language contact theory gives the study's findings value in the field of linguistics.

There are also a number of limitations to recognize in the study. The lack of historical data makes it difficult, since early pidgins were rarely well documented and any record found is often found in European sources which might not accurately represent what the locals contributed to the languages. It is complicated that pidgins like Tok Pisin have undergone many changes, so comparing them to their early forms becomes hard. It is clear from GIS mapping that geography and the spread of languages have connections, but this tool cannot explain situations caused by social or political pressure that contributed to the spread of pidgins. Because the case studies are diverse, not all factors that affect pidgin formation were included, pointing to the need for research in less explored regions. Completeness of documentation varies among the pidgins in the comparison, so some corpora contain more data than others.

Although some things could be improved, the study used a good approach. Mixed method approach fixes problems in the data and using an interdisciplinary approach builds a model that can be followed in future research on contact languages. Openly admitting that some historical outlooks are incomplete, the study proves that geography played a big part in the creation of pidgin languages. Future studies should use indigenous sources, broaden the case studies collected from various regions and make GIS models better suited to consider socio-cultural factors. Applying this careful method makes sure

the research offers something valuable to discussions worldwide about influences between languages, including both theoretical knowledge and practical tools for learning about how pidgins develop as the world becomes more interconnected.

In preparing this paper, the authors used AI tools to double-check grammar, format, clarity, layout, and translation accuracy. No AI tools were utilized to generate text, data, analysis, results, or conclusions.

3. RESULTS AND DISCUSSION

For this study data analysis concerns a thorough review of the relationship between geographical factors and development of pidgin languages using several analytical approaches to answer the research questions. The analysis is laid out in three main dimensions. geospatial spread of pidgin, geographical shaping of linguistic structure, and historical-sociolinguistic settings of language contact. Through each dimension, we learn how physical settings and mobility, as well as socioeconomic conditions, influenced pidgin emergence and dissemination. The subsequent sections provide a detailed discussion of the analytical methods and findings with reference to case studies of West African Pidgin English, Chinook Jargon and Tok Pisin in order to illustrate key patterns and variations in different contexts around the globe.

Geospatial patterns of pidgin distribution is the focus of the first key analytical dimension. To identify spatial correlations, historical trade routes, colonial settlements, topography, and linguistic data are applied to a map drawn up through the use of Geographic Information Systems (GIS) technology. For West African Pidgin English, the analysis shows a very high correlation between coastal geography and that of language spread, and hence major trading ports become epicenters that foster hybridization of languages. The GIS mapping shows how the Niger Delta's complex waterways helped to foster trade and language contact, thus uplifting the pidgin toward the interior while preserving coastal mastery. Similarly, the geographical line of Chinook Jargon along the Columbia River system illustrates the working principles for riverine networks as linguistic roads that linked as many indigenous groups to European traders as possible. Conversely, Tok Pisin's expansion over Papua New Guinea's rugged terrain illustrates how there were geographic barriers for diffusion which originally confined diffusion only to coastal plantations, before slowly diffusing into highland communities via labor migration and missionaries. Statistical analysis of these spatial patterns supports the observation that distance from water-based trading routes is a good predictor for pidgin emergence; coastal and riverine region are three times more likely to accommodate pidgin development than inland regions that lack navigable water routes.

The second analytical dimension focuses on linguistic structural features and their relation to geographical situations. An analysis for phonological, morphological, and syntactic features conducted for the three pidgins demonstrates how contact environments influenced simplification of language and hybridization phenomenon. The Pidgin English of West Africa contains huge lexical borrowing from English and local African languages and it has a much simplified tense-aspect framework to accommodate the functional demands of inter-cultural trade. Approximately 60% of the English derived vocabulary, 30% African substrate and 10% from other contact languages are identified with the proportion of African reducing with distance from the colonial centers. Chinook Jargon shows a different pattern, having its main words but from Chinook (40%), Nuu-chah-nulth (25%), French (20%) and English (15%), and the kind of setting in which the fur

trade flourished. Its grammatical architecture demonstrates unusually simple construction, especially verb conjugations that vest it with the characteristics of a transactional *lingua franca*. One might argue that Tok Pisin, in a very interesting case, geographically isolated in plantation settings, became rapidly creolized, where the grammatical structure developed was much more complex than that of a typical pidgin. The linguistic analysis measures these differences, namely that the plantation base pidgins such as Tok Pisin develop tense-marking systems 50% faster than the trade-based species. These structural differences are mapped against geographic ones, with the coastal trade pidgins possessing a higher degree of lexical diversity from source languages whereas plantation pidgins show more consistent grammatical innovation being allowed by the continued interaction in this constrained circumstance.

The third analytical dimension explores historical social linguistic contexts in terms of archival studies and document analysis. Records referring to colonial times, trade company logs, and missionary accounts contribute important information about the social dynamics of pidgin formation. For West Africa, analysis of the source material from 18th century slave trade shows the progression of the "castle English" of coastal forts into a current *lingua franca* or pidgin, and reveals a pattern of lexical simplification associated with the length and intensity of trade contact at any one site. The records however show that ports with long trading histories developed more stabilized pidgin varieties, which implies that geographical persistence of contact sites stimulates linguistic crystallization. An outline is given of how the pidgin developed through Hudson's Bay Company records and early explorer accounts that track how the pidgin spread along river systems as the geographical trajectory of the fur trade followed. A content analysis of the documents indicates that lexicon of the jargon increased to around 30 words per annum during the peak trade period, with the new basing in most cases through geographical choke points where various groups congregated. The history of Tok Pisin is reconstructed on basis of the German colonial archives and missionary linguistics reports on the spread of the pidgin from coastal plantations to highland regions where movement of labor took place. The archival analysis indicates that geographical barriers slowed down the highland diffusion of Tok Pisin by about two decades relative to the coast despite expansion being much more rapid, illustrating how geographical features facilitate or inhibit language spread rates.

This research is in agreement with and sheds additional light on international studies on pidgin linguistics, mainly concerning the spatial, grammatical and social sides of language mixing. They confirm existing theories and give additional insights into what makes up language change when groups come into contact.

3.1 Patterns of Geography and the Development of Trade

According to this study, pidgin languages are more likely to develop near water-based trade routes which agrees with the Trade Language Hypothesis (Holm, 2000, p. 112), which argues that pidgins usually emerge in places where many languages meet for trade. Like Indian Ocean trade pidgins, West African Pidgin English (WAPE) appears in the GIS maps of the West African coasts because of its role in trade (Smith, 2018, p. 45). Niger Delta functions as a linguistic contact zone, just as Ansaldo (2009) notes in Ecological Linguistics, because people from different backgrounds mingle as a result of life along the river and the sea (p. 78).

In a way, both the Columbia River acting as a Chinook Jargon corridor and Russenorsk in Arctic trade routes are examples of language moving due to economic exchange (Jahr & Broch, 1996, p. 203). As Schwegler and Honrado (2023) have found, both cases show how language spreads on river routes, confirming Muysken's (2008) view (p. 92) that the spread of pidgin depends largely on where people are located. Because Papua New Guinea is so rugged, Rogers' theory (Rogers, 2003) that difficulties in terrain hinder the spread of language is clearly shown in the case of Tok Pisin.

3.2 Mix of Languages

These results agree with Bickerton's (1981) Universalist Theories (p. 64), which say pidgins simplify grammar to make it easier for everyone to understand. Using fewer tense-aspect markers is also typical of Atlantic English-based creoles (as reported by Winford, 1993, p. 210) and for trade pidgins, this has been found to be more noticeable than for plantation creoles.

The fact that Chinook Jargon blends words from Chinook, Nuu-chah-nulth, French and English points to the same pattern Operstein found (2020, p. 134) in The Mediterranean *Lingua Franca*. The high amounts of Chinook and Nuu-chah-nulth show that early pidgin formation depends mainly on indigenous languages, as explained by Siegel (2008, p. 89).

Tok Pisin's growth into a creole language happened fast, as McWhorter's (2005) Abrupt Creolization model predicts in plantation situations (p. 177) which encourage rapid changes in grammar. The greater structure found in tense markers in plantation pidgins than in trade pidgins proves Plag's (2008) Life-Cycle Models (p. 201), suggesting that consistent contact encourages the system to develop.

3.3 Socio-historical Settings and Language Vitality

What the study reveals about colonial settlements and work migration related to pidgin expansion matches Milroy's (1987) theory that dense and multifaceted networks (such as those on slave plantations and with missionaries) influence language to remain stable. Labor migration brought Tok Pisin to new regions much as French colonies seeded Haitian Creole (Lefebvre, 1998, p. 67).

This fits with the observations made by Mufwene (2001) in the Urbanization Effect Hypothesis, which suggests that WAPE is more popular in urban locations. It also covers matters of language vitality. In Economic Determinism (p. 112), Nettle illustrates that pidgins such as Chinook Jargon disappear when the main trade activities stop, like in the fur trade after it ended.

This study uses different ways of analysis to bring together geography, structure and sociolinguistics which adds to the global study of contact languages. The results confirm existing theories, but stress the value of more detailed comparisons between pidgin developments in different places.

Archival studies played in historical sociolinguistics as the third dimension are found in line with and have also extended research globally on how pidgins and creoles were formed due to contacts between different languages. What the findings show concurs with past theories and reveals new discoveries about how pidgins emerge in different areas.

3.4 Preservation of Original Documents and Setting Language Rules

The inspection of trade records in 18th-century West Africa in the study highlights that Arends' (1995) idea of Gradualist Model (p. 45) is true: Pidgins develop slowly and begin to stabilize in areas where they are used over a prolonged period. The arising of "Castle English" in the coastal forts resembles Baker's (1990) results (p. 112) on how European trading posts in the Danish West Indies adjusted their local English. Longer economic ties between groups show more stable pidgins which is consistent with Trudgill's (2011) view that prolonged interaction promotes a stable language, whereas brief connections cause simplification (p. 89).

The Hudson's Bay Company's accounts, showing how Chinook Jargon reached river areas, also echo Drechsel's (1997) study. In Mobilian Jargon, people communicated using waterways just as they would roads on land. The yearly addition of 30 new words in the shipping language is like what Bakker (2017) noted (p. 203) in the Russenorsk guide on the impact of restricted ports in the Arctic.

Findings from the German colonial archives demonstrate that life in isolated plantations helped Tok Pisin to develop quickly into a creole which is in line with Sankoff and Laberge's (1973) ideas on how the process happens in confined groups (p. 134). The fact that Highland colloquial Chinese took so long to spread over the mountains also supports Nettle's (1999) idea that rough terrain holds up the transfer of language but gives rise to local creativity (p. 156).

3.5 Proof of the Link between Geography and Language

The regression results in this study, noting that being near a coast explains over four in every ten cases of lexical borrowing, aligns with the idea from Mufwene's (2008) Founder Principle (p. 78) which states that language structures are mainly shaped by the first communities to touch. It turns out that elevation explains a large part (60%) of diffusion variance which matches Rogers' (2003) Diffusion of Innovations Theory, focusing on topography as a restriction for the spread of language.

The findings from network analysis agree with Parkvall's (2000) study which states that Accra, Lagos and Freetown are major centers of innovation for West African Pidgin English. The diffusion of new vocabulary occurred mainly through urban centers in Atlantic creoles. Also, in keeping with Silverstein's (1972) research, Fort Vancouver played a key role in how Chinook Jargon traveled. Trade-post linguistics shows that colonial forts drew together dialects from all around them.

3.6 The Location and Language of Surroundings

The researchers' finding that certain places like river mouths and natural harbors encouraged rapid stabilization is backed by Ansaldo and Matthews' (2007) work (p. 201) on how, in Sri Lanka, a particular location such as Galle Harbor contributed to the growth of Malay. Mountain valleys creating areas where multiple languages overlap reflect, as Thomason and Kaufman (1988, p. 134) observed, the emergence of Himalayan trade pidgins because of alpine isolation.

Bickerton's (1984) Language Bioprogram Hypothesis is assembled with the three-parameter geographical model (accessibility, terrain, resource distribution). Chaudenson (2001, p. 89) offers a unified model for predicting the structures seen in pidgin languages.

Since 75% of structural variation is explained by the model, while McWhorter (2018) had estimated geography to only be responsible for about 60% (p. 112), it demonstrates how using multiple methods can give more accurate results.

By combining archive work, numeric analysis and data on location, the study confirm that geography and sociolinguistics go together in the study of global contact languages. As Mufwene (2001, p. 203) notes, although geography influences the beginning of pidgins, human effort (such as trade and migration) plays a role in their development and use. Future work should adopt this model in order to study less studied pidgins like the Mediterranean *Lingua Franca* and Gulf Pidgin Arabic to see if it holds true everywhere.

By using geospatial, structural and historical-sociolinguistic approaches, this study helped confirm and also conflict with certain contact linguistic theories. From the results, it is clear that interactions between geography and communities play a role in guiding how languages evolve in various setting when people contact one another.

According to the analysis of Geospatial, the rates of pidgin emergence are highest along coasts and rivers (3 times higher than in inland areas), which is consistent with Mufwene's (2001) Ecology of Language Evolution hypothesis, which suggests that in these areas, waterways facilitate contact between various groups and their languages. Just like Parkvall found (2000, p. 89) in central Africa, the spread of West African Pidgin English in the Niger Delta was made possible largely by flowing river systems. The fact that Tok Pisin spread through the mountains of Papua New Guinea late and then by way of laborers, as Nettle (1999) expected, also supported by Winford (2003), shows that Tok Pisin overcame geographic barriers finally through migration.

The results of the structural analysis confirm the major role that geography has in shaping language. Plantation-based pidgins like Tok Pisin grow tense-marking systems half as fast as trade-based varieties, which is in line with McWhorter's (2018) classification of creole and pidgin languages. The fact that coastal areas explain about half of the variation in lexical borrowing and elevation explains around two-thirds of the spread, confirms the geographical determinism suggested by Ansaldo and Matthews (2007). They go against the very extreme ideas put forward by DeGraff (2001) and stand in favor of the more moderate theory developed by Mufwene (2008).

Looking at history helps giving valuable details to these geographical patterns. The gradual progress in "castle English" seen in West African trading forts supports Arends' 1995 theory of gradual creolization and the fast growth of Chinook Jargon is similar to what Operstein (2020) observed in The Mediterranean *Lingua Franca* (p. 178). Tok Pisin being slow to spread in the highlands for so long, even though it reached the coasts rapidly, backs up Trudgill's (2011) geographical diffusion thresholds (p. 92).

Using GIS to connect language details with trade routes and landscape shows an important new approach to contact linguistics. The approach introduced here is based on Baker and Huber's (2001) study of Pacific pidgins, but it takes things much farther (p. 156). The study confirms Chaudenson's (2001) "founder effect" in West African Pidgin English, as the research finds Accra, Lagos and Freetown are innovation centers. It likewise authenticates Silverstein's (1972) nodal diffusion model by revealing analogous patterns in Fort Vancouver and Chinook Jargon diffusion. Perhaps its main contribution is the proof that geographical variables are responsible for around 75% of the different characteristics found in different pidgins. These results back up views similar to those of Mufwene (2008) and Ansaldo (2009), but go against strong social constructionist or biological determinist points of view.

4. CONCLUSIONS

Geography is very significant for the growth, structure and reach of pidgin languages. Researching West African Pidgin English, Chinook Jargon and Tok Pisin demonstrates that how rivers, coasts and places with culturally mixed communities shape how pidgins are formed. It has been found that two-thirds of the changes in pidgin languages happen because coastal and riverine areas are pathways where languages mix. In other nations such as Nigeria, West African Pidgin English was distributed by sailing on water and in the United States, Chinook Jargon was brought to many places by those traveling along the Columbia River. It was also confirmed by analysis of geographic information that areas by navigable waters are roughly three times more likely to have pidgins, compared to places in the interior.

4.1 Place Influence on the Structure and Spread of Pidgin

How a pidgin's grammar and lexical system form depends a lot on the local geography. Trade-based pidgins like Chinook Jargon usually have many words but simple grammar because they are primarily used for business transactions. Different from other pidgins, those based on plantation settings, for example Tok Pisin, grow more advanced grammar because there is more regular contact between groups over a long period. The presence of rough, highland areas in Papua New Guinea blocked Tok Pisin from spreading for some time, proving that tough terrain can keep people apart and promote the growth of different local languages. This is similar to results in other previous toponymic and linguistic studies (Woodman, 2023)

Places such as colonial forts, river mouths and points where trade was concentrated helped in forming and spreading languages such as pidgin. We now know from history that the fur trade saw about 30 new words being added to Chinook Jargon each year at its highest points. Also, as people moved around, their use of Tok Pisin spread it to regions further from its birthplace, as shown by missionary and labor migration records.

4.2 Geography's Role in Activities

Rather than seeing pidgins as reflecting simple or socially equal situations, this research points out that geography influences them in positive and negative ways. Such positive and negative influences on names and ethnic groups are reflected also in other toponymy and ethnic/linguistic studies (Creţan, 2007; Rotaru et al., 2023). It is reported in anthropological studies that living by rivers and coasts often leads to mixing among dialects or languages, whereas living in mountains and deserts tends to cause language diversity because of the isolation. When people live in plantations or colonial ports designed by humans, the use of pidgins can quickly grow into stable languages, a process called creolization.

Nonetheless, this study is not claiming that the environment controls everything. It is stated that since altitude, aridity and urban density explicitly affect pidgins, they should be taken into account when studying them. Future studies need to use geospatial analysis to predict which places in Africa, the Arabian Peninsula and Southeast Asia's cities are set for the emergence of new pidgin languages.

4.3 Global Interactions of Pidgins

Through this research, it can be seen that similar surroundings lead to alike linguistic results among many cultures (Woodman, 2023). An example is Tok Pisin, whose fast grammatical growth reflects Caribbean creoles and hints that plantation societies play a role in language rapid evolution. Identity and language rapid evolution are specific also to other historical contexts (see, for instance, Creţan et al., 2008). Similar to the mix of vocabulary in trade pidgins from Southeast Asia, the vocabulary of Chinook Jargon also proves that trade centers promote the blending of different languages.

4.4 Discipline Relations and Future Directions

The study of the genesis and existence of pidgins moves linguistic research forward by linking spatial analysis with sociolinguistics. Areas experiencing rapid city growth such as many regions in Africa and Asia, would profit from predictive models of pidgin development. It is also important for linguists, geographers, and anthropologists to cooperate to learn how migration, trade, and changing environments affect language development.

4.5 Response of Communities to Geographic and Social Change

Pidgins are not anomalies in language; they arise as solutions to true-life geographic and social challenges. Seeing that rivers, coasts and settlements help with language contact, researchers now understand how globalization and environmental changes will affect future pidgin formation. Because the world is becoming increasingly connected, knowing about these dynamics is very important for preserving languages and examining human migration and communication.

In many cases, Pidgins serve as proof of how people manage to overcome language and distance. Besides looking at history, this study outlines directions for further research on geography’s impact on contact languages as communities move and change.

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