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INDONESIAN-ARABIC ACADEMIC TRANSLATION QUALITY: A COMPARATIVE CONTENT ANALYSIS OF CHATGPT AND GOOGLE TRANSLATE

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ABSTRACT

This study compares the quality of Indonesian-Arabic academic translations produced by Google Translate and ChatGPT (GPT-4), a topic rarely examined despite widespread MT use in Arabic Language Education programs. Using a qualitative descriptive design with content analysis, the data comprised ten purposively selected undergraduate thesis titles from Indonesian university repositories, including UIN Sunan Kalijaga, UIN Suska Riau, UIN Imam Bonjol Padang, and Universitas Muhammadiyah Makassar. Titles were selected for their academic rigor and need for conceptual precision and formal Arabic register. Translations were analyzed at the phrase level using a Hybrid MQM-Nababan-Baker rubric encompassing seven dimensions: accuracy, acceptability, readability, lexical equivalence, grammatical equivalence, cohesion and coherence, and academic fluency, each rated on a three-point scale. Validity was ensured through alignment with Arabic translation theory, equivalence frameworks, and MQM standards, while iterative consistency checks supported reliability. Results reveal clear differences. ChatGPT achieved an average score of 20.0 out of 21 points (93%), which is classified as Very Good and indicates strong suitability for academic publication. Google Translate scored 13.3 out of 21 points (63%), classified as Good, but requiring post-editing. ChatGPT excelled in contextual meaning, syntactic restructuring, accurate *idhafab*, case governance, consistent terminology, and scholarly style, whereas Google Translate showed literal transfer. This study enriches AI-assisted translation discourse through evaluation grounded in Arabic translation theory and pedagogy, emphasizing generative AI's pedagogical potential as a complementary tool, while reaffirming the indispensable role of human expertise in maintaining linguistic accuracy, rigor, and academic standards.



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INTRODUCTION

The rapid advancement of artificial intelligence (AI) has reshaped contemporary translation practices and foreign language learning, including in Arabic language education (Syafanah et al., 2025). Over the past decade, machine translation (MT) systems such as Google Translate have become widely accessible and increasingly relied upon for multilingual communication and academic work (Jooste et al., 2021). The emergence of generative AI models, most notably ChatGPT, built upon Large Language Models (LLMs), marks a new phase in MT development, offering context-aware processing and improved semantic and pragmatic interpretation (Ataman et al., 2025). These technological shifts have prompted renewed attention to the reliability of MT outputs, particularly for languages with complex morphology and diglossic features such as Arabic (Alayba, 2025).

In Arabic Language Education programs, MT tools are now used extensively by students to complete coursework, translate academic texts, and comprehend both classical and modern Arabic sources (Hakiki et al., 2023). While such tools support accessibility and learning efficiency, concerns persist regarding the accuracy, naturalness, and terminological consistency of MT outputs, primarily when used for academic purposes (El-Farahaty, 2025). These concerns highlight a broader pedagogical challenge: the increasing dependence on AI-based translation tools is not matched by adequate empirical studies evaluating their quality in the Indonesian-Arabic language pair (Nurfaiza, 2024).

Several previous studies have discussed ChatGPT and Google Translate in the context of language. Nasaruddin (2024) notes that ChatGPT supports Arabic language teachers in the learning process by providing rich, modern, and engaging educational materials, including texts, questions, and images. Then, Chandra et al. (2025) evaluate Google Translate's performance in preserving sentiment and semantics. However, these studies focus on translation accuracy in other fields and have not highlighted the context of academic translation in higher education. In addition, several previous comparative studies, such as Al-Darabee et al. (2025), which compared Netflix and Google Translate translations, focused more on English-Arabic translations and did not involve Indonesian as the source language. Furthermore, studies on MT quality in Indonesia tend to use Nababan (2012) accuracy-acceptability-readability model, but without situating Indonesian-Arabic MT evaluation within global translation quality frameworks such as MQM or equivalence theory.

Thus, a clear *research gap* emerges: no study has systematically compared ChatGPT and Google Translate in translating Indonesian academic texts into Arabic using an integrated linguistic and translation-quality framework. This gap is academically significant for two reasons. First, Indonesian-Arabic translation presents unique linguistic challenges due to divergent syntactic structures, morphological systems, and rhetorical traditions, factors that strongly influence MT performance (Popović, 2020). Second, MT systems used by students operate on distinct algorithmic principles: Google Translate relies on neural statistical models, whereas ChatGPT utilizes contextual generative AI with advanced semantic inference. Evaluating how these differing architectures influence translation quality is crucial for understanding the pedagogical implications of MT use in Arabic language education.

Accordingly, this study aims to compare the quality of Indonesian–Arabic academic translation produced by ChatGPT and Google Translate, using a content analysis approach and a hybrid assessment model that integrates MQM, Nababan's criteria, and Baker's equivalence framework. The study addresses the following problem statement: How do

ChatGPT and Google Translate differ in producing accurate, natural, and academically appropriate translations of Indonesian academic texts into Arabic?

The novelty of this study lies in its methodological integration of global and national translation-quality models, as well as its focus on the underexamined Indonesian–Arabic academic translation context. The findings are expected to contribute theoretically to the growing body of research on AI-assisted translation and, practically, to Arabic translation pedagogy, particularly by informing the responsible and pedagogically sound use of MT tools in higher education.

METHOD

This study adopts a qualitative descriptive design with a content analysis approach to examine the quality of Indonesian-Arabic academic translations produced by two machine translation systems: Google Translate and ChatGPT. This design is appropriate for identifying linguistic patterns, meaning shifts, and stylistic features within translated texts.

The research data consist of 10 Indonesian thesis titles purposively selected from undergraduate theses in Arabic Language Education (PBA) programs at several Indonesian universities (UIN Sunan Kalijaga, UIN Suska Riau, UIN Imam Bonjol Padang, Universitas Muhammadiyah Makassar, and others). Thesis titles were selected because they represent academically curated text units that reflect conceptual precision, terminological accuracy, and formal academic phrasing.

The unit of analysis is the Arabic translation output generated by Google Translate and ChatGPT (GPT-4 model). Each title was translated separately by the two systems to enable a point-by-point comparative evaluation. Data collection was conducted in three steps: (1) Compiling Indonesian thesis titles from institutional repositories, (2) Translating each title independently using Google Translate and ChatGPT without manual intervention, and (3) Organizing outputs into a comparative dataset for analysis.

Translation quality was assessed using a Hybrid MQM-Nababan-Baker rubric that integrates global and national evaluation dimensions. The instrument includes seven analytical dimensions: accuracy, acceptability, readability, lexical equivalence, grammatical equivalence, cohesion and coherence, fluency, and academic style. Each dimension is scored on a 3-point scale (1-3), with higher scores indicating stronger translation quality.

Content validity was ensured by aligning the rubric indicators with established theoretical frameworks in translation studies (Nababan, Baker, and MQM). Reliability was addressed through repeated evaluation cycles and cross-checking of scoring consistency. The analysis process was conducted iteratively until stable patterns emerged across the dataset. The analysis followed the qualitative stages proposed by Miles & Huberman (1992): (1) Data Reduction: identifying linguistic errors, semantic shifts, and deviations from Arabic academic norms, (2) Data Display: presenting source texts, translation outputs, scores, and analytical notes in comparative tables, and (3) Conclusion Drawing: synthesizing evaluative patterns to determine the relative strengths and weaknesses of each machine translation system.

This study is non-experimental and comparative, analyzing existing translation outputs to reveal qualitative differences attributable to the systems' underlying architectures rather than controlled manipulation. The researcher served as the primary instrument in the analysis, supported by an evaluation rubric validated against the theoretical frameworks of Nababan, Baker, and the MQM model (Lommel et al., 2014). This evaluation rubric assessed

translation quality across two key aspects: (1) assessment dimensions and (2) scoring criteria. The first aspect is illustrated in the following table:

Table 1. Assessment Dimensions

No.	Assessment Dimensions	Sub-Aspects	Ideal Performance	Score
			Description	(1-3)
1	Accuracy	Semantic equivalence	The translation conveys the meaning of the source text completely and accurately, without loss or distortion.	1-3
		Misinterpretation	There is no shift or addition of meaning that alters the message's content.	1-3
2	Acceptability	Arabic language norms	Sentence structure, diction, and style are consistent with academic Arabic language norms.	1-3
		Natural expression	No machine-like feel; sentences flow naturally and idiomatically.	1-3
3	Readability	Level of comprehensibility	Academic Arabic readers easily understand sentences without causing ambiguity.	1-3
4	Lexical Equivalence	Equivalence of academic terms	Scientific terms are translated accurately and consistently, in line with the scientific field's context.	1-3
		Translation of idioms and collocations	Idiomatic expressions are translated with natural equivalents in Arabic.	1-3
5	Grammatical Equivalence	Sentence structure and syntactic relationships	Word structure and order follow Arabic rules without losing the original meaning.	1-3
		Morphology and word type compatibility	Word form selection (<i>isim-f'il-harf</i>) according to function in Arabic sentences.	1-3
		Inter-sentence integration	The logical relationship between sentences and	1-3

No.	Assessment Dimensions	Sub-Aspects	Ideal Performance Description	Score (1-3)
6	Cohesion & Coherence		paragraphs is well maintained in the translation.	
		6 Use of conjunctions and pronouns	Discourse markers are appropriately used in Arabic.	1-3
7	Fluency & Style (MQM)	Academic style appropriateness	The academic style of Arabic is well reflected (formal, objective, clear).	1-3
		Technical machine errors (noise, literalism)	There are no traces of literalism, stiffness, or machine-like literal translations.	1-3

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As for the scoring criteria, they can be observed in the following table:

Table 2. Scoring Criteria

Total Score Range	Score Interpretation
17-21	Very Good (Highly Reliable Translation) – Suitable for academic publication without significant revisions.
12-16	Good (Acceptable Translation) - Fairly good; requires minor editing.
7-11	Moderate (Partially Acceptable) - There are still inaccuracies in meaning and a lack of naturalness.
≤6	Poor (Inaccurate / Machine-Literal) - The translation is rigid and not academically acceptable.

RESULT AND DISCUSSION

After collecting the original academic texts in the form of Indonesian-language thesis titles from ten Arabic Language Education (PBA) programs at several universities in Indonesia, the texts were then translated into Arabic using both Google Translate and ChatGPT. The translation results are presented in the following table:

Table 3. Arabic Translation Results by Google Translate and ChatGPT

No.	Source of Text	Type of Text	Original Text (Indonesian)	Google Translate Result (Arabic)	Chatgpt Result (Arabic)
1	Thesis – PBA IAIN Mataram (2011)	Title	Pengaruh kelancaran membaca Al-Qur'an terhadap keterampilan membaca pada bidang studi bahasa Arab kelas VIII di MTs Yusuf Abdussattar Kediri Lombok Barat Tahun Pelajaran 2011/2012	تأثير طلاقة قراءة القرآن تأثير الطلاقة في قراءة الكريم على مهارة القراءة في القرآن الكريم على مهارات مادة اللغة العربية لدى القراءة في مجال دراسات طلاب الصف الثامن اللغة العربية للصف بمدرسة يوسف عبد الثامن في مدرسة يوسف الصنار المتوسطة بكيري - عبد السنار كيديري غرب لومبوك الغربية في العام لومبوك في العام الدراسي ٢٠١٢/٢٠١١	تأثير طلاقة قراءة القرآن تأثير الطلاقة في قراءة الكريم على مهارة القراءة في القرآن الكريم على مهارات مادة اللغة العربية لدى القراءة في مجال دراسات طلاب الصف الثامن اللغة العربية للصف بمدرسة يوسف عبد الثامن في مدرسة يوسف الصنار المتوسطة بكيري - عبد السنار كيديري غرب لومبوك الغربية في العام لومبوك في العام الدراسي ٢٠١٢/٢٠١١
2	Thesis – PBA IAIN Parepare (2019)	Title	Analisis kesulitan belajar bahasa Arab peserta didik kelas VII MTs DDI WANIO terhadap penggunaan kosakata bahasa Arab	تحليل صعوبات تعلم تحليل صعوبات تعلم اللغة العربية لدى طلاب العربية لدى طلاب الصف السابع في مدرسة MTs DDI WANIO في المدرسة وانيو DDI WANIO في المدرسة المتوسطة في إتقان يتعلّق بإتقان المفردات العربية	تحليل صعوبات تعلم تحليل صعوبات تعلم اللغة العربية لدى طلاب العربية لدى طلاب الصف السابع في مدرسة MTs DDI WANIO في المدرسة وانيو DDI WANIO في المدرسة المتوسطة في إتقان يتعلّق بإتقان المفردات العربية
3	Thesis – PBA UIN SUKA Yogyakarta (2009)	Title	Problematika pengajaran kemahiran membaca bahasa Arab siswa MTsN Laboratorium UIN Sunan Kalijaga Yogyakarta	إشكالية تعليم مهارة مشكلات تدريس مهارات القراءة في اللغة العربية القراءة باللغة العربية لدى طلاب المدرسة للطلاب في مختبر UIN Sunan Kalijaga Yogyakarta	إشكالية تعليم مهارة مشكلات تدريس مهارات القراءة في اللغة العربية القراءة باللغة العربية لدى طلاب المدرسة للطلاب في مختبر UIN Sunan Kalijaga Yogyakarta

No.	Source of Text	Type of Text	Original Text (Indonesian)	Google Translate Result (Arabic)	Chatgpt Result (Arabic)
4	Thesis – PBA UIN SUSKA Pekanbaru (2021)	Title	Pengaruh aktivitas pembelajaran bahasa Arab di Pusat Bahasa terhadap kemampuan mengikuti kuliah Studi Teks Fikih di jurusan Pendidikan Agama Islam Fakultas Tarbiyah dan Keguruan UIN SUSKA Pekanbaru	تأثير نشاطات تعلم اللغة تأثير أنشطة تعلم اللغة العربية في مركز اللغات العربية في مركز اللغات على على قدرة متابعة القدرة على متابعة مقرر محاضرات مادة دراسة دراسة النصوص الفقهية النصوص الفقهية في قسم الإسلامية في قسم التربية التربية الإسلامية بكلية الدينية الإسلامية بكلية التربية بجامعة السلطان التربوية وتدريب المعلمين شريف قاسم الإسلامية بجامعة سوسكا بيكانبارو الحكومية بيكانبارو	تأثير نشاطات تعلم اللغة تأثير أنشطة تعلم اللغة العربية في مركز اللغات العربية في مركز اللغات على على قدرة متابعة القدرة على متابعة مقرر محاضرات مادة دراسة دراسة النصوص الفقهية النصوص الفقهية في قسم الإسلامية في قسم التربية التربية الإسلامية بكلية الدينية الإسلامية بكلية التربية بجامعة السلطان التربوية وتدريب المعلمين شريف قاسم الإسلامية بجامعة سوسكا بيكانبارو الحكومية بيكانبارو
5	Thesis – PBA Universitas Muhammadiyah Makassar (2017)	Title	Stimulus guru dan respon siswa dalam pembelajaran bahasa Arab kelas VIII SMP UNISMUH Makassar	المنهات التعليمية من تحفيز المعلم واستجابة المعلم واستجابات الطلاب الطالب في تعلم اللغة في تعلم اللغة العربية العربية للصف الثامن في طلاب الصف الثامن مدرسة SMP UNISMUH Makassar بمدرسة UNISMUH ماسار المتوسطة بمكاس	المنهات التعليمية من تحفيز المعلم واستجابة المعلم واستجابات الطلاب الطالب في تعلم اللغة في تعلم اللغة العربية العربية للصف الثامن في طلاب الصف الثامن مدرسة SMP UNISMUH Makassar بمدرسة UNISMUH ماسار المتوسطة بمكاس
6	Thesis – PBA Universitas Jambi (2024)	Title	Implementasi metode pembelajaran Picture and Picture terhadap keterampilan membaca bahasa Arab di MTs Al-Jauharen kota Jambi	تطبيق طريقة التعلم تطبيق أسلوب تعلم الصورة Picture and الصورة على مهارات Picture على مهارة القراءة باللغة العربية في القراءة في اللغة العربية مدرسة الجوهرين بمدرسة الجوهرين المتوسطة بمدينة جامي المتوسطة بمدينة جامي	تطبيق طريقة التعلم تطبيق أسلوب تعلم الصورة Picture and الصورة على مهارات Picture على مهارة القراءة باللغة العربية في القراءة في اللغة العربية مدرسة الجوهرين بمدرسة الجوهرين المتوسطة بمدينة جامي المتوسطة بمدينة جامي
7	Thesis – PBA Universitas Islam Riau Pekanbaru (2024)	Title	Strategi Sekolah Dalam Meningkatkan Minat Belajar Bahasa Arab Siswa Di SMP YLPI.	استراتيجية المدرسة في استراتيجيات مدرسة تنمية اهتمام الطالب لزيادة اهتمام الطالب بتعلم بتعلم اللغة العربية في اللغة العربية في مدرسة	استراتيجية المدرسة في استراتيجيات مدرسة تنمية اهتمام الطالب لزيادة اهتمام الطالب بتعلم بتعلم اللغة العربية في اللغة العربية في مدرسة

No.	Source of Text	Type of Text	Original Text (Indonesian)	Google Translate Result (Arabic)	Chatgpt Result (Arabic)
			Marpoyan Pekanbaru	مدرسة YLPI المتوسطة، بي ماريوبان - بيكانبارو	مدرسة YLPI المتوسطة، بي ماريوبان - بيكانبارو
8	Thesis - PBA UIN Imam Bonjol Padang (2021)	Title	Pengembangan alat tes Mufradat dengan menggunakan Wordwall untuk kelas 8 MTsN 1 Payakumbuh	تطوير أداة اختبار Wordwall باستخدام منصة MTsN 1 Wordwall لطلاب لغة Payakumbuh	تطوير أداة اختبار المفردات باستخدام منصة Wordwall لطلاب لغة Payakumbuh في المدرسة المتوسطة الإسلامية الحكومية الأولى بباياكمبود
9	Thesis - PBA UIN Syarif Hidayatullah Jakarta (2015)	Title	Revitalisasi metodologi penelitian bahasa sebagai basis pengembangan pendidikan Bahasa Arab	إعادة تفعيل منهجية إحياء منهجية البحث اللغوي بوصفها أساساً لتطوير تعليم اللغة العربية	إعادة تفعيل منهجية إحياء منهجية البحث اللغوي كأساس لتطوير أساساً لتطوير تعليم اللغة العربية
10	Thesis - UIN Maulana Malik Ibrahim Malang (2019)	Title	Metode pembelajaran keterampilan membaca di Madrasah Aliyah Al Ma'arif Sukorjo Pasuruan	طريقة القراءة في المدرسة الثانوية القراءة في مدرسة المعرفة الإسلامية العليا المعرفة سوكورجو با سوروان	طريقة تدريس مهارة أساليب تعلم مهارات القراءة في المدرسة الثانوية القراءة في مدرسة المعرفة الإسلامية العليا المعرفة سوكورجو با سوروان

The Indonesian thesis titles were deliberately selected because they constitute an essential part of a thesis. In addition to reflecting the aspects being studied, a title is intentionally crafted with precise, accurate, and scholarly diction and phrasing. This makes the thesis titles highly substantial in terms of both content and form.

The analysis of ten thesis titles reveals consistent differences in translation quality between Google Translate (GT) and ChatGPT. ChatGPT produces Arabic structures that are more natural, coherent, and aligned with academic norms, whereas GT tends to retain Indonesian syntactic patterns in a literal manner. This pattern is consistent with Popović's (2020) findings that conventional NMT systems often fail to adapt to linguistic structures in morphologically complex languages such as Arabic. Semantically, ChatGPT demonstrates greater success in capturing relational meaning and key concepts within academic texts. In nearly all cases, ChatGPT selects more appropriate academic Arabic diction, such as using *مشكلة* for "problematika" and *منصة* *Wordwall* for digital learning contexts. GT often translates lexically without considering disciplinary context.

These findings support Barker's equivalence theory, which posits that lexical and textual equivalence require contextual understanding, a task more effectively handled by LLM-based models like ChatGPT. ChatGPT consistently generates *jumlab ismiyyah* and *jumlab fi'iyyah* constructions that adhere to standard Arabic grammatical norms (*nabwu-ṣarf*). In contrast, GT often preserves Indonesian word order, resulting in syntactic unnaturalness in Arabic, for example, inverted phrase sequences or incorrect *mudāf-mudāf ilayh* constructions.

This reinforces the critique that acceptability is determined by the translator's ability to adapt messages to target-language norms, an ability limited in GT but markedly stronger in ChatGPT. ChatGPT maintains more cohesive relationships between sentence components, including the use of appropriate conjunctions, pronouns, and logical thematic structures. GT frequently produces fragmented sentences that lack a coherent flow of information, thereby reducing readability.

These findings align closely with House's argument that translation quality in academic genres is shaped not only by semantic transfer but also by the management of informational structure and the clarity of inter-clausal relationships. In thesis titles containing longer nominal constructions and embedded modifiers, such as data 1, 4, and 5, the quality divergence between the two MT systems becomes increasingly visible. ChatGPT demonstrates stability in preserving intended meaning while restructuring Indonesian noun phrases into well-formed Arabic academic expressions that conform to disciplinary conventions. In contrast, Google Translate tends to retain source-language surface structures, resulting in overly literal renderings, disrupted *iḍāfah* chains, weakened case governance, and reduced syntactic naturalness, all of which diminish scholarly acceptability in Arabic. Although Google Translate does not completely fail when processing shorter titles, its outputs still lack the terminological precision and syntactic fluidity that ChatGPT achieves through deeper contextual inference. Across the dataset, three recurring patterns emerge. First, ChatGPT shows consistent strength in linguistic and academic adaptation, particularly in phrase reordering, nominal agreement, and register alignment. Second, Google Translate operates predominantly through form-bound statistical processing, prioritizing structural resemblance over functional equivalence. Third, the errors produced by Google Translate are systemic rather than incidental, evidenced by persistent misgoverned compounds, unstable terminology, and repeated morpho-syntactic inconsistencies across all data points. The regularity of these error typologies signals that quality limitations stem from architectural constraints rather than random performance noise.

These findings substantiate Nida's concept of dynamic equivalence by showing that generative models, such as ChatGPT, are technologically more capable of approximating meaning-oriented academic translation than conventional neural statistical MT systems. The results empirically confirm Chandra's 2025 conclusion that LLM-based translation yields higher academic reliability than traditional NMT engines like Google Translate. They also reinforce Al-Darabee's 2025 findings that Google Translate faces structural challenges in managing Arabic academic terminology and syntactic environments, even though those earlier studies centered on different language pairs. Moreover, this study extends Hakiki's 2023 observations—originally examining Arabic-to-Indonesian MT—by demonstrating that ChatGPT maintains its superiority in the reverse direction, Indonesian-to-Arabic, when evaluated using an integrated framework combining MQM, Nababan's criteria, and Baker's

equivalence model. By doing so, this study moves beyond prior field-general evaluations and offers corpus-specific evidence that differences in MT architecture significantly shape the semantic, grammatical, rhetorical, and stylistic quality of Indonesian–Arabic academic translation. Collectively, the study strengthens the theoretical claim that MT system design directly determines translational adequacy for Arabic academic discourse and confirms that generative MT can serve as a pedagogical scaffold, but not a replacement, for expert-driven academic post-editing and terminological standardization.

Discussion

Based on the data presented above, the translation results produced by Google Translate and ChatGPT were evaluated using the Hybrid MQM-Nababan-Baker instrument. The results of this assessment are shown in the following table:

Table 4. Scoring & Assessment

No	Text Source	Accuracy	Acceptability	Readability	Lexical Equivalence	Grammatical Equivalence	Cohesion & Coherence	Fluency & Academic Style	Total (21)	Category	Analytical Notes
1	IAIN Mataram (2011)	GT: 2/ GPT: 3	GT: 2/ GPT: 3	GT: 2/ GPT: 3	GT: 2/ GPT: 3	GT: 2/ GPT: 3	GT: 1/ GPT: 3	GT: 13 / GPT: 21	GT: Good / Very Good	GT: Good / Very Good	GPT is more idiomatic and natural, GT is still literal
2	IAIN Parepare (2019)	2/3	2/3	2/3	2/3	2/3	2/3	1/3	13 / 21	Good / Very Good	GPT correctly adapts the context of "الفن"
3	UIN SUKA (2009)	2/3	2/3	2/3	2/3	2/3	2/3	2/3	14 / 21	Good / Very Good	GPT uses the correct academic term "الفن"
4	UIN SUSKA (2021)	2/3	2/3	2/3	2/3	2/3	2/3	2/3	14 / 21	Good / Very Good	GPT is more natural in construction "محضرات مادة دراسة المجموع الفنية"
5	UNISMUH Makassar (2017)	2/3	2/3	2/3	2/3	2/3	2/3	1/3	13 / 21	Good / Very Good	GPT is more fluent and academic, GT is rigid
6	Univ. Jambi (2024)	2/3	2/3	2/3	2/3	2/3	2/3	2/3	14 / 21	Good / Very Good	GPT captures contextual meaning "Picture and Picture."
7	Univ. Islam Riau (2024)	2/3	2/3	2/3	2/3	2/3	2/3	2/3	14 / 21	Good / Very Good	GPT is more cohesive and natural
8	UIN Imam Bonjol (2021)	2/3	2/3	2/3	2/3	2/3	2/3	2/3	14 / 21	Good / Very Good	GPT adds the idiomatic context "معنى Wordwall"
9	UIN Syarif Hidayatullah (2015)	4 02-Mar	02-Mar	02-Mar	02-Mar	02-Mar	02-Mar	02-Mar	14 / 21	Good / Very Good	GPT chose the formal term "علاقة فعل"
10	UIN Maulana Malik Ibrahim (2019)	4 02-Mar	02-Mar	02-Mar	02-Mar	02-Mar	02-Mar	02-Mar	14 / 21	Good / Very Good	GPT generates more formal and natural sentences

Quantitative Analysis of Translation Quality

Based on assessment results using the Hybrid MQM-Nababan-Baker instrument, the translation quality of academic texts produced by Google Translate (GT) and ChatGPT (GPT) differed significantly across all evaluation dimensions. The average total scores indicate that ChatGPT achieved 20.0 out of 21 points (93%), categorized as “Very Good”, whereas Google Translate obtained an average score of 13.3 out of 21 points (63%), categorized as “Good”.

This difference in scores demonstrates that ChatGPT produces translations that are more accurate, natural, and contextually appropriate for academic purposes. At the same time, Google Translate tends to generate more literal translations and often retains the syntactic structure of the source language (Indonesian). These findings are consistent with studies by Popović (2020) and Jooste et. al. (2021), which affirm that traditional neural machine translation (NMT) systems, such as Google Translate, still face limitations in handling syntax and semantics in morphologically complex languages like Arabic.

Qualitative Analysis Based on the Seven Assessment Dimensions

The accuracy dimension assesses the extent to which the translation preserves the original meaning of the source text. ChatGPT demonstrated high accuracy (average score of 3), effectively capturing the conceptual meaning and maintaining the relationships between phrases with precision.

In terms of acceptability, GPT was found to be more aligned with Arabic linguistic norms, both morphologically and syntactically (Sadiq, 2025). Most of Google Translate's outputs still retained Indonesian structural patterns (Syam et al., 2023), whereas GPT successfully adapted them into natural and standard Arabic constructions (*jumlab fi'liyah* and *jumlab ismiyyah*). As Nababan, Nuraeni, and Sumardiono state, acceptability is primarily determined by the translator's ability to adapt the source message to the conventions of the target language.

ChatGPT produced translations that were easier for native Arabic speakers to read and comprehend (Widowati et al., 2025). This high level of readability stems from GPT's ability to organize information logically and avoid the long, complex sentence structures typical of Indonesian (Ahmed et al., 2025). These findings are consistent with House's Translation Quality Assessment model, which emphasizes the relationship between sentence structure and clarity of meaning within the context of academic communication.

In terms of terminology selection, GPT demonstrated greater consistency in using academic terminology than GT. Regarding grammar, GPT also excels over Google Translate. Sentences generated by ChatGPT are more accurate. This is in accordance with the rules of Arabic syntax (*nabwu*) and morphology (*sharaf*), meeting the requirements for structural accuracy in translation (Kusumadewi et al., 2024). In contrast, GT often generated word orders inconsistent with Arabic's logical syntactic structure (Abidah et al., 2024).

GPT demonstrated a strong ability to maintain logical relationships between sentence elements and ensure robust textual cohesion (Youssef & Ismail, 2023). In contrast, GT often lost these logical connections due to fragmented sentence structures (Sadikhova & Babayev, 2025). Within the context of this study, ChatGPT demonstrated a high degree of textual equivalence, as described by Baker, in which intersentential relationships are preserved through the appropriate use of pronouns, conjunctions, and the logical sequencing of ideas.

GPT produced an academic Arabic style that was natural, formal, and aligned with the conventions of scholarly Arabic writing (Aljanah et al., 2025). Its sentences were fluent and maintained a consistent logical flow, whereas GT's translations tended to be monotonous and literal (Aghai, 2024). This highlights GPT's ability to emulate the academic register, a crucial skill for translating scientific texts. Thus, GPT excels not only in linguistic aspects but also in pragmatic and stylistic dimensions. This aligns with the principles and strategies of politeness required in academic contexts (Arifianto et al., 2022).

Across all seven dimensions, ChatGPT demonstrated comprehensive and consistent superiority in producing translations that are accurate, natural, cohesive, and academically acceptable. These findings reinforce the results of international studies by Lommel within the MQM framework, which assert that context-based AI systems possess higher evaluative and adaptive capabilities than conventional Neural Machine Translation (NMT) systems.

Moreover, from a pedagogical perspective, this study affirms that ChatGPT can serve as an effective tool in teaching academic Arabic translation, particularly within Arabic Language Education (PBA) programs. However, the integration of ChatGPT in education is most effective when accompanied by instructor supervision, such as post-editing, to ensure that the final translation meets strict academic standards and material suitability criteria (Brahmana et al., 2025; Wahyudi & Gina, 2023).

From a semantic perspective, ChatGPT consistently outperformed Google Translate in capturing relational meaning and academic terminology (Aeni et al., 2024). This aligns with Nida's notion of dynamic equivalence and confirms Baker's argument that lexical and textual equivalence require contextual interpretation rather than literal substitution. GT's literal tendencies mirror findings from studies on Arabic MT challenges (Nagoudi et al., 2022) and support broader research on semantic drift in NMT (Gupta et al., 2022). Recent evaluations of generative AI in academic translation also indicate that LLMs better interpret specialized terminology and discipline-specific concepts (Alzain et al., 2024).

Syntactically, ChatGPT demonstrated a superior ability to restructure Indonesian sentences into natural Arabic constructions (*jumlah ismiyyah* and *jumlah fi'l-ijyah*) (Jauhar & Setiyawan, 2025). GT, however, frequently retained Indonesian word order, resulting in unnatural syntactic patterns-echoing known limitations of NMT systems (Alenezi, 2024). ChatGPT's ability to maintain correct *idāhab*, verb-subject order, and nominalization structures corresponds with studies showing LLM advantages in long-range dependency modeling (Kusuma & Yulia, 2023). Other researchers similarly report that Arabic MT requires more profound syntactic transformations than those in Indo-European languages (Ameur et al., 2020).

Discourse-level differences further distinguish the two systems. ChatGPT maintained cohesive and coherent flow through accurate use of pronominal reference (Suharsono et al., 2024), connectives (Guba & Quba'a, 2025), and thematic progression, an essential component of academic readability following House's TQA framework (Skowron & Bączkowska, 2023). GT's fragmented outputs echo prior findings showing that NMT often struggles with clause linkage and discourse continuity (Kusuma & Yulia, 2023). Studies on LLM coherence modeling support these observations, as generative systems have been shown to outperform NMT at representing multi-sentence discourse relations (Wang et al., 2023).

In comparing these findings with broader MT scholarship, this study reinforces trends reported in various prior works. Chandra demonstrated that generative models outperform conventional NMT systems across low-resource languages. (Al-Darabee et al., 2025) found that GT struggles with culturally embedded expressions when translating into Arabic. Researchers examining Arabic-Indonesian MT similarly observe that ChatGPT produces more natural, contextually appropriate translations (Faris & Abdurrahman, 2023). The superiority of ChatGPT also aligns with the literature, which shows that LLMs produce more genre-appropriate academic expressions (Mohsen, 2024).

CONCLUSION

This study demonstrates that ChatGPT and Google Translate differ substantially in producing Indonesian-Arabic academic translations, revealing qualitative patterns that extend beyond previously reported numerical score distinctions. The findings affirm that ChatGPT's generative architecture enables stronger contextualized processing of semantic relations, adaptive syntactic restructuring, and alignment with the Arabic academic register, resulting in more coherent and rhetorically natural translations. In contrast, Google Translate remains constrained by literal, form-bound translation, which limits its ability to render Indonesian nominal compounds into academically acceptable Arabic constructions and often results in morphosyntactic rigidity. These results empirically validate the initial research gap, confirming that MT architectural differences directly shape the linguistic and rhetorical adequacy of Indonesian-Arabic academic translation. This domain has been largely underexamined in Indonesian scholarship.

Theoretically, this study contributes to translation-quality research by integrating global frameworks Multidimensional Quality Metrics (MQM), equivalence-based meaning negotiation, and House's Translation Quality Assessment (TQA) with Nababan's model of accuracy, acceptability, and readability. This hybrid framework proves relevant for evaluating MT performance in language pairs characterized by substantial typological distance and the morphological and syntactic complexity of Arabic, where translation adequacy cannot rely solely on surface-level accuracy but requires deeper functional equivalence and phrase-level adaptation. The study thus extends field-general MT evaluations by situating Indonesian-to-Arabic academic translation within a multidimensional, linguistically grounded quality assessment.

Practically, the findings confirm that generative MT models such as ChatGPT while not a replacement for human translators or expert review offer significant pedagogical value as scaffolding tools in Arabic academic translation training, particularly in register adaptation and conceptual phrasing. However, this study also identifies limitations related to genre scope, as the corpus was restricted to thesis titles with limited syntactic variation. Future research is encouraged to expand into more complex academic genres and compare updated generative models to deepen the understanding of MT's evolving capabilities. Collectively, this study reinforces the importance of critical and responsible MT integration in Arabic translation pedagogy and provides a validated methodological basis for future Indonesian-Arabic MT quality research.

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AUTHOR CONTRIBUTIONS STATEMENT

All authors made balanced and significant contributions to this research. [A] served as the lead author, responsible for designing the research framework, conducting data analysis, and preparing the final manuscript. (GANZ) contributed to developing the theoretical framework and refining the methodology in accordance with the context of Arabic language education. [TN] was involved in the linguistic validation process and theoretical review, while [M] contributed to academic language editing and citation consistency. All four authors have read and approved the final version of this article for publication. The authors reported no conflicts of interest.

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