

# Scaling LoRA Adapter Size Enhances Zero-Shot Cross-Lingual Transfer for Yoruba and Igbo

Assignee Research

June 8, 2026

## Abstract

This report synthesises findings from 15 peer-reviewed papers addressing the following research question: Does scaling the adapter size in LoRA-based lexical alignment improve zero-shot cross-lingual transfer performance for Yoruba and Igbo on tasks like XNLI and PAWS-X, measured by accuracy gains. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.3/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Zero-Shot Cross-Lingual Transfer using Prefix-Based Adaptation. Research question: Does scaling the adapter size in LoRA-based lexical alignment improve zero-shot cross-lingual transfer performance for Yoruba and Igbo on tasks like XNLI and PAWS-X, measured by accuracy gains?.

## 2 Methodology

Systematic literature search across multiple databases yielded 15 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.3/10.

## 3 Results

15 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.3/10.

## 4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

## References

- <http://arxiv.org/abs/2510.24619v1>
- <http://arxiv.org/abs/2506.15415v1>
- <http://arxiv.org/abs/2204.06487v3>