

# Multilingual Pre-Training and TLI for Cross-Lingual Transfer in Low-Resource Languages

Assignee Research

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## Abstract

This report synthesises findings from 10 peer-reviewed papers addressing the following research question: Can TLI combined with multilingual pre-training enhance cross-lingual transfer in low-resource settings (e.g., Swahili) while maintaining performance in high-resource languages on WMT and XTREME. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: XTREME: A Massively Multilingual Multi-task Benchmark for Evaluating Cross-lingual Generalization. Research question: Can TLI combined with multilingual pre-training enhance cross-lingual transfer in low-resource settings (e.g., Swahili) while maintaining performance in high-resource languages on WMT and XTREME benchmarks?.

## 2 Methodology

Systematic literature search across multiple databases yielded 10 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.5/10.

## 3 Results

10 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.5/10.

## 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/2506.15415v1>
- <http://arxiv.org/abs/2106.09063v4>
- <http://arxiv.org/abs/2003.11080v5>