

# EfficientViT Frozen Layer Tuning Effects on PaLI Image-Text Matching Performance

Assignee Research

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## Abstract

This report synthesises findings from 9 peer-reviewed papers addressing the following research question: What is the effect of varying the number of frozen layers in EfficientViT when used as the backbone in PaLI on the Image-Text Matching (ITM) precision and recall metrics on the ECCV Caption dataset. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: ECCV Caption: Correcting False Negatives by Collecting Machine-and-Human-verified Image-Caption Associations for MSCOCO. Research question: What is the effect of varying the number of frozen layers in EfficientViT when used as the backbone in PaLI on the Image-Text Matching (ITM) precision and recall metrics on the ECCV Caption dataset?.

## 2 Methodology

Systematic literature search across multiple databases yielded 9 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.0/10.

## 3 Results

9 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.0/10.

## 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/2405.19092v4>
- <http://arxiv.org/abs/2204.03359v5>
- <http://arxiv.org/abs/2411.05079v1>