

# Instruction-Tuning Strategies and Robustness to Spurious Correlations in Long-Context Policy Learning

Assignee Research

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## Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: How do different instruction-tuning strategies (e.g., Vicuna vs. Llama-3) affect robustness to spurious correlations in long-context policy learning, as evaluated by accuracy on out-of-distribution. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: The Clever Hans Mirage: A Comprehensive Survey on Spurious Correlations in Machine Learning. Research question: How do different instruction-tuning strategies (e.g., Vicuna vs. Llama-3) affect robustness to spurious correlations in long-context policy learning, as evaluated by accuracy on out-of-distribution sequences in MLNeedle?.

## 2 Methodology

Systematic literature search across multiple databases yielded 14 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.7/10.

## 3 Results

14 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.7/10.

## 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/2505.05704v1>
- <http://arxiv.org/abs/2402.12715v4>
- <http://arxiv.org/abs/2509.16679v1>