

# Double-Lasso Enhancement on "The Effect of Minimum Wage on Low-wage Jobs"

Oscar Lu, Feya Yang, Lingfeng Shi, Qijin Liu, Weizi He, Nuha Alamri  
Texas A&M University  
April 29, 2024

## Abstract and Introduction

- Using Double-Lasso to enhance the DID analysis on The Effect of Minimum Wages on Low-wage Jobs.
- Study articulates exploration of minimum wage using ML for detailed insights.
- Methodological variations clarify discrepancies in youth employment findings.

## Literature Review

- The review depth is moderate but lacks broader scope
- focuses more on specific methodologies relevant to the study's data-driven approach.
- The literature is relevant and current, directly connecting to the study's core analysis and objectives.

## ML Methodology

- Utilizes the Double-Lasso technique to refine treatment group selection for DID analysis.
- Applies placebo tests to confirm the robustness and precision of the regression outputs.

## Results

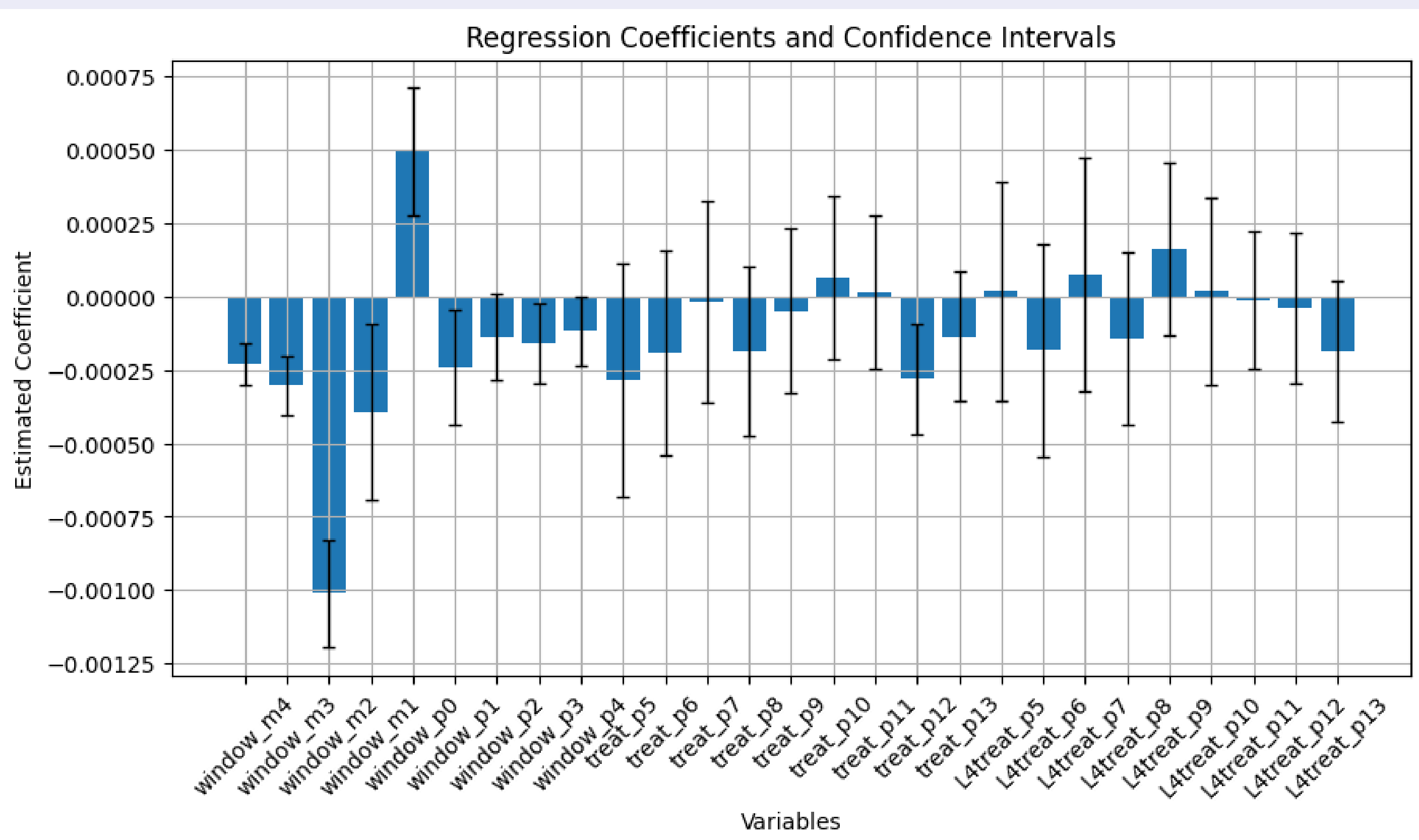


Figure: Impact of Minimum Wages on the Wage Distribution

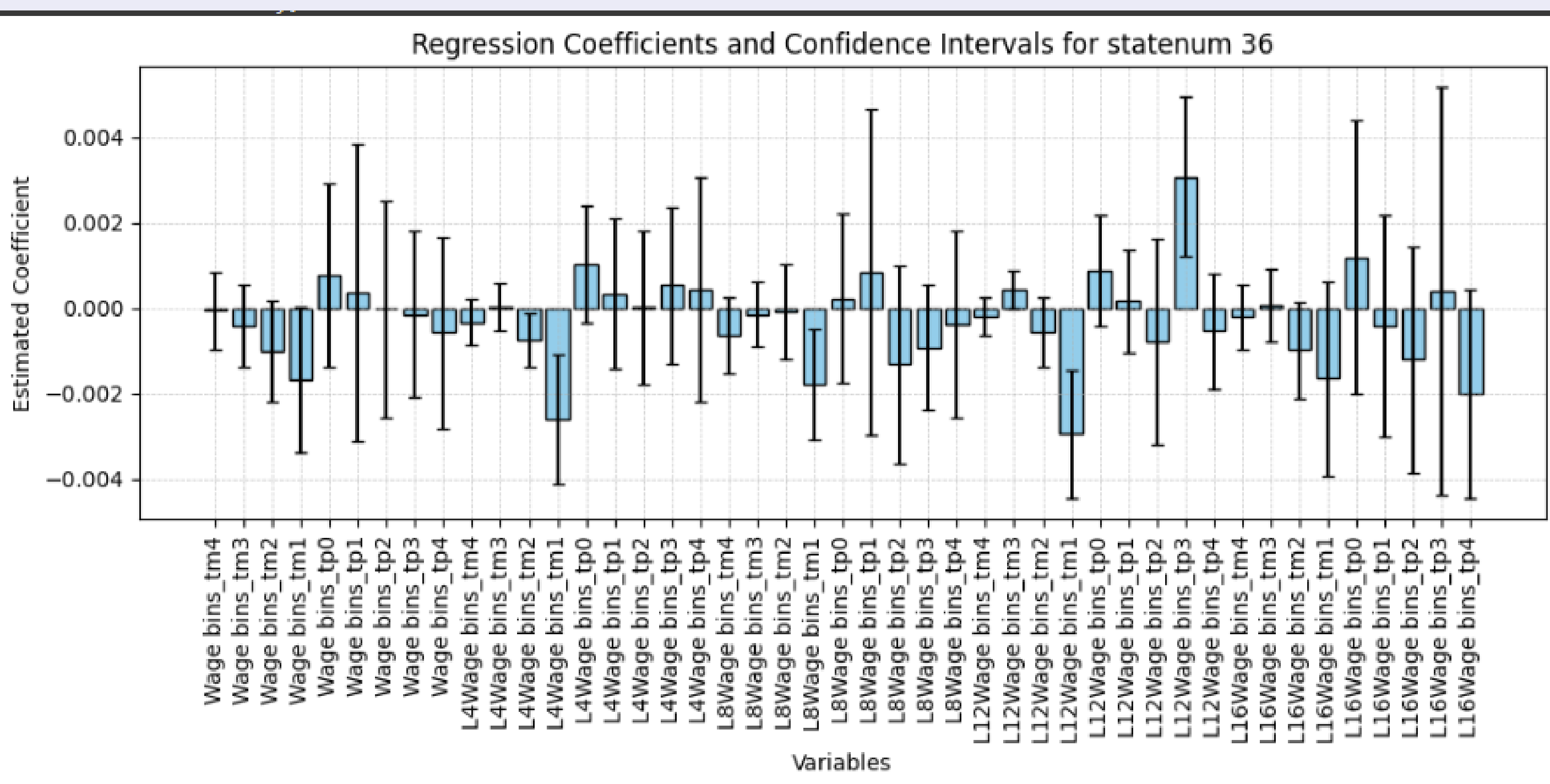


Figure: Double-Lasso Enhancement

- Double Lasso refines model, revealing precise impacts of minimum wage across wage tiers.
- $\delta a = 0.007, \delta b = -0.008$ .

## Conclusions

- Research enhances traditional analysis with ML, offering new insights.
- Clearly states how ML methodologies advance understanding of labor market responses to policy changes.

## Discussion

- ML analysis identifies detailed patterns, confirming robustness via placebo tests.
- Results link back, offering a deeper understanding of wage policy effects.

## QR Code and Other Contents

