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

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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

- -Methodology Focus: Double-Lasso by Belloni et al. (2012) for control and treatment variable selection.
- -Literature Review Emphasis: Chernozhukov et al. (2018) and Athey and Imbens (2019) on ML in econometrics.
- -Research Relevance: ML integration for a nuanced analysis of minimum wage impacts.

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.



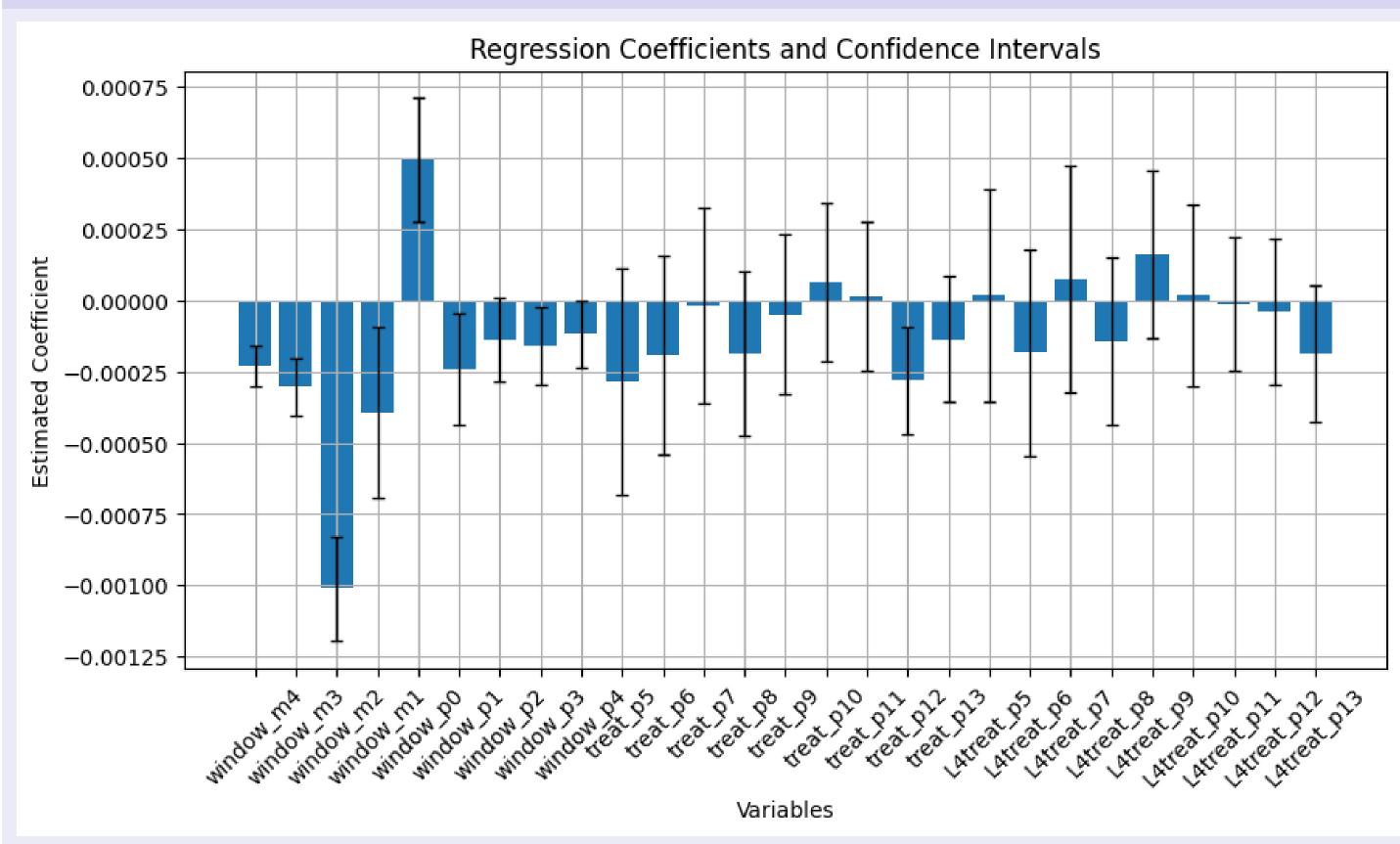


Figure: Impact of Minimum Wages on the Wage Distribution

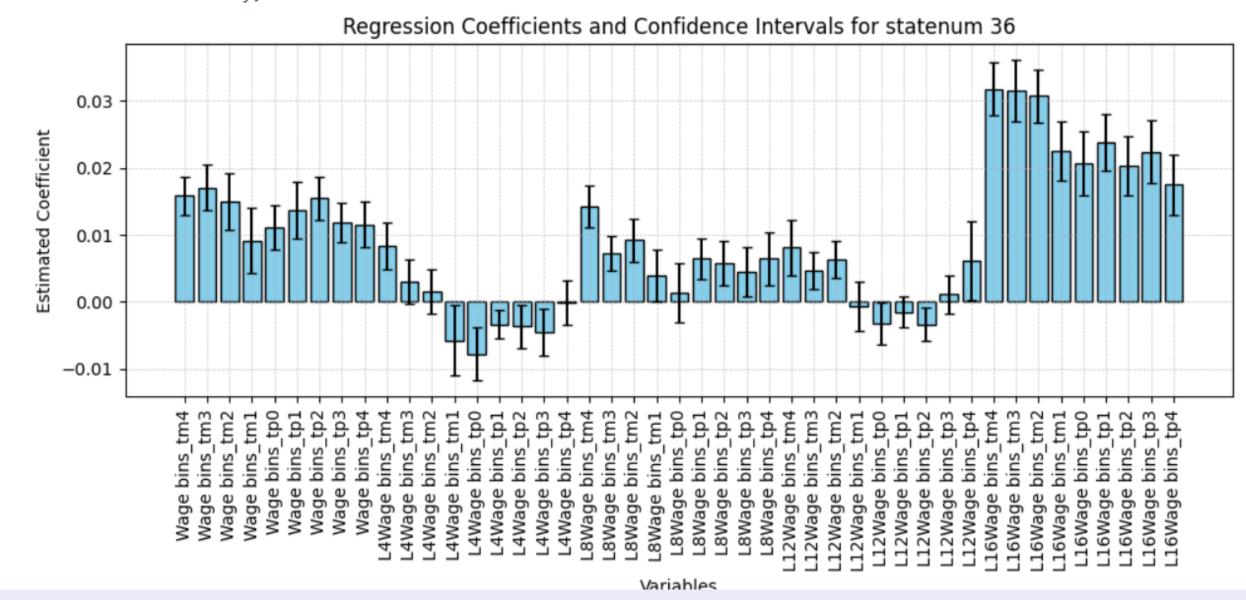


Figure: Double-Lasso Enhancement

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

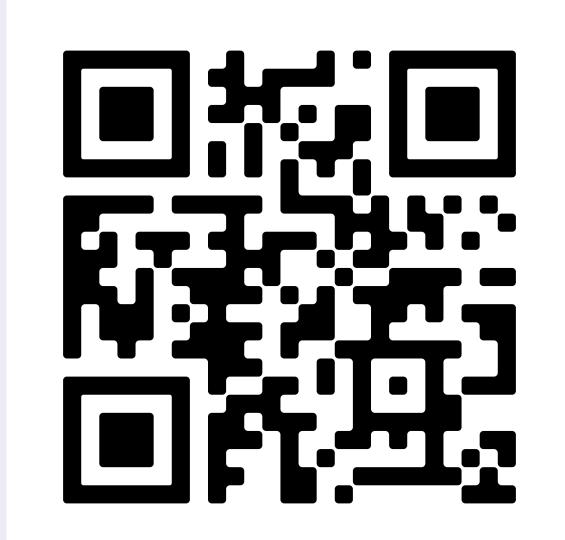
Conclusions

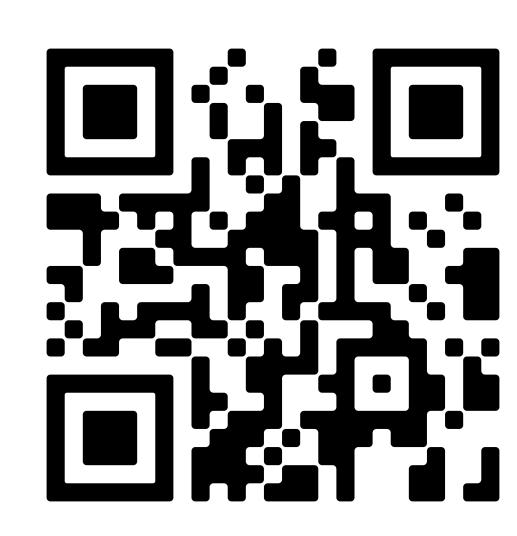
- -Research enhances traditional analysis with ML, offering new insights.
- -Clearly states how ML methodologies advance understanding of labor market responses to policy changes.

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





Cited paper and ML literature review