

**BINGHAMTON**  
UNIVERSITY  
STATE UNIVERSITY OF NEW YORK

## Introduction

## Central Investigative Questions

## Methods

## Regression Details

Union Coverage is the percentage of workers whose jobs are covered by a collective-bargaining agreement, so  $\beta_1$  estimates the dollar change in wages, benefits, or total compensation that accompanies a one-percentage-point rise in coverage, holding the passage of time constant. The Year term, entered as a simple numeric trend, absorbs inflation, productivity growth, and other secular forces; its coefficient  $\beta_2$  therefore represents the average annual pay drift unrelated to unions. Goodness-of-fit was assessed with  $R^2$  (all above 0.88), and t-tests on  $\beta_1$  used a 10 % significance cutoff to flag subsectors where union density still exerts a statistically meaningful pay effect.

## Results

This chart isolates the relationship between union coverage and benefit cost after removing the effects of time. The upward slope confirms, all else equal, higher union presence is significantly associated with higher employer spending on worker benefits