# DETERMINANTS OF SOCIAL AND ECONOMIC WELL-BEING IN THE US: MINIMUM WAGE, COST OF LIVING, AND WELFARE GENEROSITY

**BEN PICCIANO** 



# **OVERVIEW**

- Objective: design a study of minimum wages in US cities and counties that incorporates local cost of living differences
- How?
  - Using The Council for Community and Economic Research's (C2ER) cost of living index and an equivalent minimum
    wage index, measure the "gap" between the minimum wage and cost of living
  - Use fixed effects regression analysis to examine relationships with unemployment, food insecurity, and jail admissions
- Two-Part Analysis
  - Nominal Minimum Wage
  - The "Gap"

## Table 1. Unemployment City and County Case Selection, 2005-2016

#### Cities

Albuquerque NM, Berkeley CA, Chicago IL, Lexington KY, Long Beach CA, Los Angeles CA, Louisville KY, Minneapolis MN, Oakland CA, Portland ME, Portland OR, Sacramento CA, San Diego CA, San Francisco CA, San Jose CA, Santa Clara CA, Seattle WA, Sunnyvale CA, Tacoma WA, Washington DC

#### Counties

Bernalillo NM, Cook IL, Kings NY, Los Angeles CA, Montgomery MD, Nassau NY, New York NY, Queens NY, Suffolk NY, Westchester NY

## Table 2. Food Insecurity City and County Case Selection, 2005-2016

#### Cities

Lexington KY, Louisville KY, San Francisco CA, Washington DC

#### Counties

Bernalillo NM, Cook IL, Kings NY, Los Angeles CA, Montgomery MD, Nassau NY, New York NY, Queens NY, Suffolk NY, Westchester NY

## Table 3. Jail Admissions City and County Case Selection, 2005-2016

#### Cities

Lexington KY, Louisville KY, San Francisco CA, Washington DC

#### Counties

Bernalillo NM, Cook IL, Los Angeles CA, Montgomery MD, Nassau NY, New York NY, Suffolk NY, Westchester NY

	Unemployment			
	Model 1	Model 2	Model 3	Model 4
Minimum Wage	001	.024	.295 **	.298 *
GDP Growth		196 ***	111 ***	174 ***
Public Welfare Generosity			483 ***	525 ***
% Black or African American				153
% Hispanic or Latino				.144
Constant	6.438 ***	6.719 ***	13.155 ***	12.887 ***
R <sup>2</sup> Within	.00	.08	.27	.27
R <sup>2</sup> Between	.06	.01	.18	.11
$R^2$	.00	.04	.16	.08
Observations	360	360	360	330

	Food Insecurity				
	Model 1	Model 2	Model 3	Model 4	
Minimum Wage	-1.03 ***	489 **	483 *	364 *	
Unemployment Rate		.295 ***	.261 **	.202 *	
Public Welfare Generosity			058	090	
% Black or African American				.280 *	
% Hispanic or Latino				193	
Constant	21.739 ***	15.266 ***	16.562 ***	16.117 ***	
R <sup>2</sup> Within	.38	.44	.45	.48	
R <sup>2</sup> Between	.01	.12	.07	.03	
$R^2$	.00	.11	.08	.04	
Observations	112	112	112	112	

	Jail Admissions				
	Model 1	Model 2	Model 3	Model 4	
Minimum Wage	-540.204 ***	-554.480 ***	-546.567 ***	-536.624 ***	
Unemployment Rate		28.191	16.263	-8.270	
Public Welfare Generosity			-24.302	-81.827	
% Black or African American				120.067	
% Hispanic or Latino				120.733	
Constant	7353.980 ***	7279.782 ***	7758.424 ***	4501.659 ***	
R <sup>2</sup> Within	.26	.26	.26	.26	
R <sup>2</sup> Between	.08	.08	.06	.01	
$R^2$	.09	.09	.07	.01	
Observations	120	120	120	108	

	Unemployment			
	Model 1	Model 2	Model 3	Model 4
MWCOL Gap	.058 ***	.055 ***	.035 *	.054 ***
GDP Growth		174 ***	110 **	178 ***
Public Welfare Generosity			392 ***	431 ***
% Black or African American				129
% Hispanic or Latino				.481 ***
Constant	4.872 ***	5.358 ***	12.778 ***	4.852
R <sup>2</sup> Within	.04	.12	.23	.27
R <sup>2</sup> Between	.05	.04	.27	.08
$R^2$	.01	.03	.16	.08
Observations	319	319	319	293

	Food Insecurity			
	Model 1	Model 2	Model 3	Model 4
MWCOL Gap	.053 **	.025	.031 *	.026
Unemployment Rate		.388 ***	.304 ***	.188 *
Public Welfare Generosity			118	161 *
% Black or African American				.362 **
% Hispanic or Latino				237
Constant	11.506 ***	9.841 ***	12.414 ***	12.348 **
R <sup>2</sup> Within	.09	.36	.37	.43
R <sup>2</sup> Between	.01	.01	.00	.03
R <sup>2</sup>	.01	.04	.01	.07
Observations	96	96	96	96

	Jail Admissions				
	Model 1	Model 2	Model 3	Model 4	
MWCOL Gap	-7.537	-6.563	-7.721	-3.885	
Unemployment Rate		-46.658	-102.345	-37.293	
Public Welfare Generosity			-112.762	-183.594 *	
% Black or African American				218.629 *	
% Hispanic or Latino				-212.466	
Constant	3389.842 ***	3660.723 ***	6186.967 **	7090.410	
R <sup>2</sup> Within	.00	.01	.03	.20	
R <sup>2</sup> Between	.06	.09	.01	.00	
$R^2$	.03	.04	.02	.04	
Observations	106	106	106	94	

# POLICY IMPLICATIONS

- If unemployment is high, avoid large minimum wage increases unless there are accompanying policies to offset further employment losses.
- Close the "gap" between minimum wage and cost of living to prevent negative effects on employment
  - Administer household surveys to gauge the degree of hardship and cost burdens faced by low-income earners
- Increase spending on welfare programs that work
  - Prioritize workforce development