PSC 400 SYRACUSE UNIVERSITY

DATA ANALYTICS FOR POLITICAL SCIENCE

CAUSALITY AND SINGLE VARIABLES

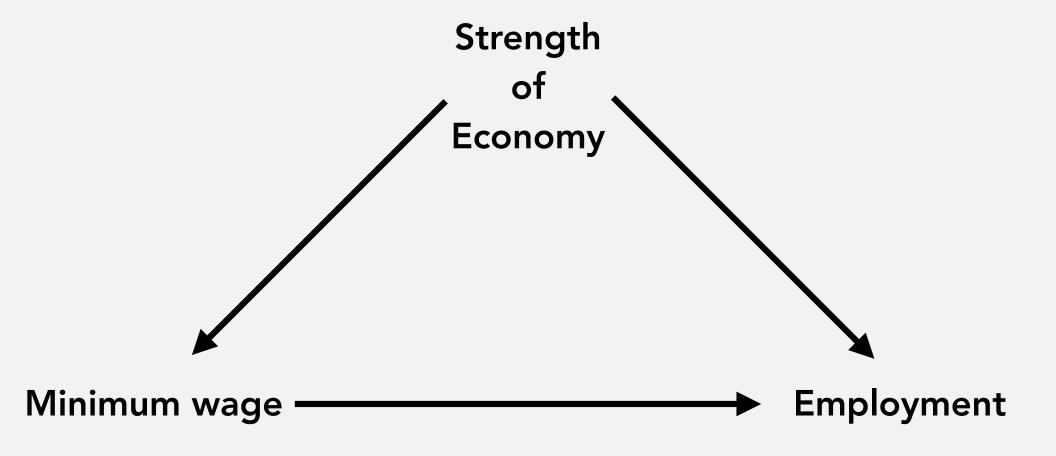
ASSIGNMENTS

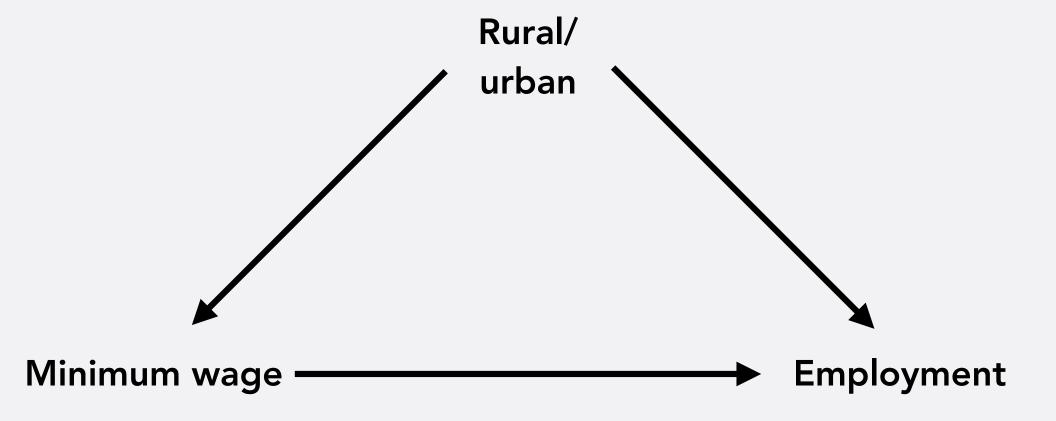
- Problem Set 1 due on Friday
- Review Exercise 1 due Friday
- Review Exercise 2 due Monday
- Prompt for Data Analysis Memo posted
 - due next week

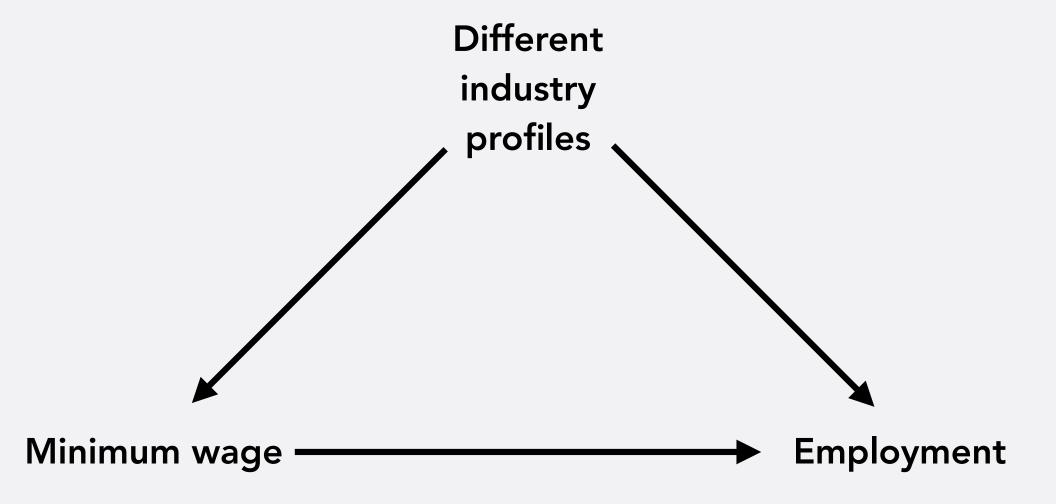
REVIEW

- What you can do in R now:
 - load data
 - compute simple descriptive statistics
 - tables, mean, median, range, etc.
 - keep only subsets of data or variables/vectors
 - e.g. only Sophomores, everyone except Sophomores, everyone older than 30
 - create new variables
 - e.g. adding two variables, putting continuous variable into categories, create factor variables, combine different variables into one variable (e.g. combine gender and race into one variable with all combinations)

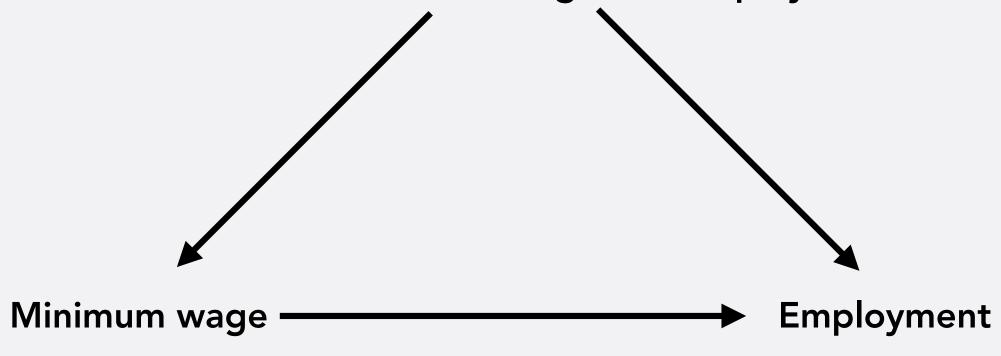
Minimum wage
→ Employment







Many other differences between states that could affect minimum wage and employment



IN-CLASS EXERCISE

Variable	Description
chain	name of the fast-food restaurant chain
location	location of the restaurants (centralNJ, northNJ, PA, shoreNJ, southNJ)
wageBefore	wage before the minimum-wage increase
wageAfter	wage after the minimum-wage increase
fullBefore	number of full-time employees before the minimum-wage increase
fullAfter	number of full-time employees after the minimum-wage increase
partBefore	number of part-time employees before the minimum-wage increase
partAfter	number of part-time employees after the minimum-wage increase

• minwage.csv

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partBefore	number of part-time employees before the minimum-wage increase
partAfter	number of part-time employees after the minimum-wage
	increase

- Create a new variable that gives the proportion of full-time employees before/after the minimum wage increase
- What is the proportion of full-time employees in PA and NJ before/after the minimum wage increase?