# THE 2009 US TIRE TARIFF AND ITS INTERMEDIATE PENALTIES TO THE AUTO INDUSTRY

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## **QUESTION REVIEW**

Question: How did the 2009 Obama Administration Chinese tire tariffs affect US Vehicle Manufacturing?

- How did the tariffing of this intermediate good change the employment and overall market space?
- can we find a difference in Employment among US sectors at the time of implementation?
- Can the study of industry during their intermediate goods being tariffed tell us about effects on that industry

## **POSITIONING**

# (Joonhyung 2010)

- Short Run analysis of data on international effects
- Research uses a similar Methodology but different data

# (Brown 2020)

- analyzes the effect of the Anti-Dumping agenda against China, not a safeguard measure
- Anti-dumping especially on Chinese goods is a well-researched trend (Lake 2022)
  - Long term analysis of the 2002 Bush Steel tariff
  - Safe Guard measure which received backlash in the long term
  - Diff-in-Diff using Commuting zones to differentiate the local impact of Tariff

#### METHODOLOGY REVIEW

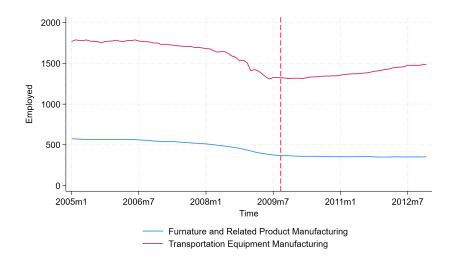
## **Difference-In-Difference:**

- Y= A\*Post +B\*Treatment + C\*(Post\*Treatment) + U
- Final Treatment Group: Transportation Equipment Manufacturing (BLS 2024)
- Final Control Group: Furniture and Related Goods Manufacturing (BLS 2024)

# Respective Differences:

- Time of initiated tariff
- Industry

## **TIME SERIES**



#### **INCONSISTENCY IN RESULTS**

Following my early results presentation, one inconsistency in my results became a major hurdle

- A negative level value paired with a positive natural log value
- AI Chatbots and online discussion board posts brought no help
- With the help of TA's Ananyo Hyunjin Yun, I was able to address the transition between the two versions of my outcome
- With an In(dependent variable), this causes a concave transformation and makes the dependent variable non-linear. This causes a shift of data that makes the regression present itself as positive in this case.
- findings correspond to stats.stackexchange.com postings

### **REGRESSION TABLE**

VARIABLES	Employment in thousands	Natural log Employed
treatment	1,152***	1.180***
	(20.76)	(0.0210)
post-tariff	-158.2***	-0.361***
	(8.153)	(0.0172)
Diff-In-Diff	-122.1***	0.180***
	(22.69)	(0.0221)
Constant	513.2***	6.233***
	(8.119)	(0.0171)
Observations	192	192
R-squared	0.977	0.982

 $Robust\ standard\ errors\ in\ parentheses$ 

\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

#### CONCLUSION

#### Hurdle:

- In levels, employment decreased in thousands
- In log, the nature of the diff-in-diff inputs caused a sign change(log-level model)

# **Next Steps**

- Begin transferring figures from Stata to final paper outline
- Begin Bibliography & Appendix
- Begin writing paper