

Worker Rights In Collective Bargaining

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MAIN IDEA OF THE PAPER

- ▶ Collective bargaining agreements (CBAs)
 - ▶ Specify **worker compensation** → studied extensively
 - ▶ Specify many **worker rights** → not yet studied extensively
- ▶ Challenge
 - ▶ Compensation is *numerical*
 - ▶ Other legal content of CBAs is *textual*
- ▶ Solution
 - ▶ Natural language processing (NLP) techniques

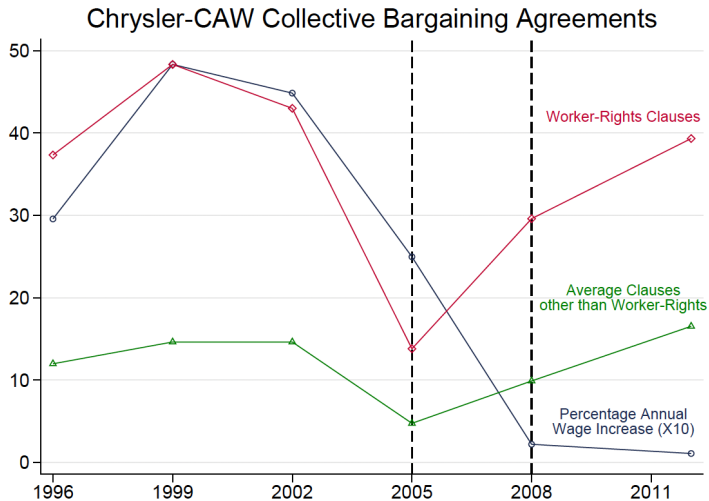
APPROACH OF THE PAPER

- ▶ 30,000 Canadian CBAs from 1986 to 2015
 - ▶ Contracts written at the firm-level; about 7,000 unique firms
- ▶ Using NLP
 - ▶ Parse out clauses that are worker rights, worker obligations, firm obligations
 - ▶ Assign worker rights to topics, e.g. “parental leave” or “workplace safety”
- ▶ Merge with other data at the Province-year level
 - ▶ Income tax rates
 - ▶ Outside options (labor demand)

SUMMARY OF FINDINGS

- ▶ Determinants of worker rights
 - ▶ Labor income tax $\uparrow \Rightarrow$ more worker rights
 - ▶ Workers' outside options $\uparrow \Rightarrow$ more worker rights
- ▶ Value of worker rights
 - ▶ 1 SD increase in worker rights valued at 5.7% of wages

A FUN CHART



MY THOUGHTS ON THE PAPER

Disclaimer: I am not a labor economist

1. NLP implementation is great
2. Left-hand-side measure in regressions is a bit crude
3. Do more to interpret results
4. Exploit firm-side variation more
5. Think about policy implications

- ▶ Applied for well defined task, with clear goal
- ▶ Method is very transparent
- ▶ I commend the authors for resisting temptation to use blackbox methods
 - ▶ LLMs are nicely employed for validation
- ▶ Maybe also do some human validation?
 - ▶ Recommended for NLP tasks, eg by [Ludwig, Mullainathan, and Rambachan \(2025\)](#)
 - ▶ Though the authors provide some arguments against it
- ▶ Overall, this part of the paper is very convincing to me

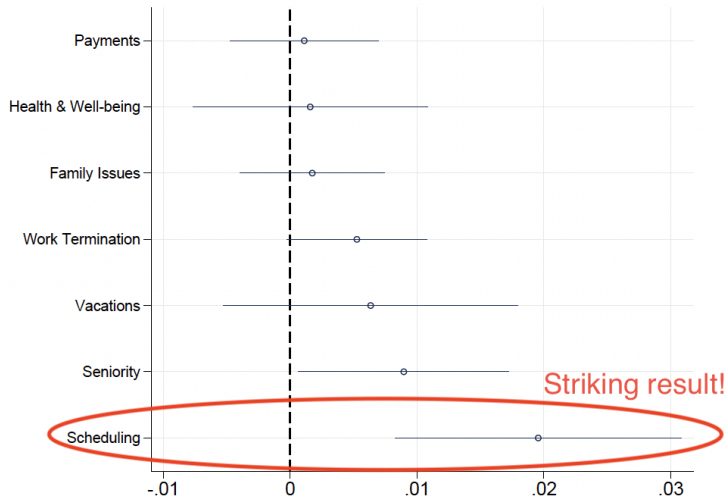
LEFT-HAND-SIDE MEASURE

- ▶ Main outcome variable in regressions:

$$\text{\#worker rights} / \text{\#statements in contract}$$

- ▶ A bit crude, given the sophisticated steps that come before the regressions
- ▶ I understand that constructing an intensive-margin measure is challenging
- ▶ I understand \#worker rights itself does not work (contracts longer for larger firms)
- ▶ Still, some more robustness in this dimension would be welcome

INTERPRETATION OF RESULTS



INTERPRETATION OF RESULTS

- ▶ According to Table 3, the narrow topics related to “*scheduling*” are:
 - ▶ *Part-time employment, work hours, breaks, leaves of absence, over time, scheduling*
 - ▶ Why not check which of these narrow categories drive the results?
- ▶ Why is “*scheduling*” so responsive?
 - ▶ Easiest for firms to give concessions on?
 - ▶ Most valuable for worker on the margin?
 - ▶ Could further open up eg industry heterogeneity
- ▶ Answering this question might tell a clearer “story” behind results
- ▶ Also, results stand in an interesting contrast to gig workers
 - ▶ Typically no union protection, but lots of flexibility in scheduling

FIRM INFORMATION IN DATA

- ▶ It would have helped me to know more about the firm sample
 - ▶ Is there selection into the data set, e.g. by larger or publicly traded firms?
 - ▶ Mean number of employees is 691; what is the median?
- ▶ Could also merge with more firm-level info (probably for another paper)
 - ▶ Include interaction terms with firm size?
 - ▶ Exploit repeated CBAs for a given firm somehow?
- ▶ All this could help with my previous comment, but is interesting more broadly

POLICY IMPLICATIONS?

- ▶ Would love to hear the authors' view on policy related take-aways
- ▶ For example, we think of labor taxes as distortionary
- ▶ If more margins (worker rights) can adjust, are taxes less distortionary?

CONCLUSION

- ▶ Important question and convincing use of NLP techniques
- ▶ Fascinating to read as non-labor economist; bodes well for general audience appeal
- ▶ I think the authors can still drill even deeper into the results

BIBLIOGRAPHY

LUDWIG, J., S. MULLAINATHAN, AND A. RAMBACHAN (2025): “Large language models: An applied econometric framework,” Tech. rep., National Bureau of Economic Research.