

# Firms Resistance to Unionism and its Determinants: Evidence from a Field Experiment

Patrick Nüß

Macroeconomic Policy Institute (IMK)

&

Kiel University

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# In a nutshell

- Correspondence experiment about resistance against unionism.
- Results point to the existence of resistance against unionism in Germany.
- Determined by occupations? sectors? contract type? union density? strike activity?
- Preliminary results only

# Why care?

- Union density has fallen for almost every country.
- What are the effects of unions?
  - Improve wages and general working conditions.
  - Reduce inequality (Dustmann et al., 2009; Farber et al. 2018).
  - Little evidence that unionisation harms firms (Freeman and Kleiner, 1999).
  - They are harmful for firms profits (Freeman and Medoff, 1984).

# What do we know about resistance against unions?

- There is a wide range to resist unions.
  - Improve wages and working conditions to avoid unionisation.
  - Spread fear with potential consequences up to firing union members (Kleiner, 2001).
  - Management consultants providing tactics to discourage unionisation (DiNardo and Lee, 2004).
- Past research of resistance against unionism (see for example Servais (1977), Saltzman (1995), Gall (2004), Heery and Simms (2010)) was mainly survey based.

# What we recently learned

- Unfair treatment of union members has been a topic for a while, but there was no causal evidence!
  - Potential bias due to survey demand effects and unobservable heterogeneity.
- Recently Baert and Omey (2015) conducted an experiment to identify union distaste in the Belgium labor market.
  - Union members are 22% less like to be invited for a job interview.
  - Union distaste is increasing with sectors union density.

# Institutional setting of Belgium

Table: Union Provision and Institutions

	Belgium	Germany	Predicted Effect for Germany
Labour Disputes	100	18	–
Labour Court solves conflicts between employer/employee	Yes	Yes	0
Union Legal Support at Labour Court	Yes	Yes	0
Union Density	55%	17.7%	–
Workers Councils	???	Yes <sup>1</sup>	?
Unions Provide Unemployment Benefits	Yes <sup>2</sup>	No	+
Coverage of Collective Agreements	96%	57.6%	+

*Note: 1. For firms with at least 5 employees possible, most likely to be implemented in large firms.  
2. They provide the unemployment insurance, but also private unemployment insurance is available.*

- Union resistance for Belgium should not be representative for Europe as a whole.

# The Experiment

# Correspondence Experiments

- Correspondence experiments are popular for detecting:
  - Racial discrimination (Bertrand and Mullainathan, 2004)
  - Gender discrimination (Carlsson and Rooth, 2008)
  - Unemployment stigmatization (Nüß, 2018)
- The basic idea of correspondence experiments is...
  - Send pairs of fictitious job applications to real vacancies.
  - Monitoring the callback rates of firms.
- This allows a causal interpretation of firms hiring decision.



# Design of the Experiment

- The experiment was carried out between August and October 2017.
- The sample currently consists of 2082 applications.

# The Design of the Applications

- The applications consists of...
  - a cover letter
  - a resume
  - needed certificates
- Two applications were sent to each firm.
- Comparison with real applications.
- Randomized **Union Membership** (0/1)

# Measurement of Callbacks

- Standard callback measures from the literature are used.
  - Category 1 when it is a clear invitation to a job interview.
  - Category 2 when firms asked for further information.

# Experimental Results

# First Evidence

**Table:** (Un)Equal treatment resulting from the Union Membership

Categories	Number of Applications	Neither (1)	Both (2)	Non Union Only (3)	Union Signal Only (4)	ND	Relative Callback Rates
All	2082	52.4%	28.6%	13.7%	5.3%	17.7	1.25***
Without CA	1682	53.4%	27.6%	14.1%	4.9%	19.7	1.28***
With CA	400	48.0%	33.0%	12.0%	7.0%	9.6	1.13

*Note: Callback Category 2. Null hypothesis is both individuals are equally often treated unfavourably. ND: Net Discrimination*

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$  Z-test for proportions.

- 47.6% of firms invited at least one applicant.
- $NetDiscrimination = \frac{3-4}{2+3+4}$
- $RelativeCallbacks = \frac{2+3}{2+4}$

# Empirical Strategy

- Focus on:
  - Linear probability model
  - Callback category 2
- Minimum set of control variables consist of:
  - Occupation
  - Layout (Template A/B)
  - Order (1st and 2nd application)

# Multivariate Results

Table: First General Overview

	(1)	(2)	(3)
	Baseline	Firm FE	Strict Callbacks
Union	-0.0890*** (0.0226)	-0.0887*** (0.0148)	-0.0650*** (0.0127)
Union x CA	0.0359 (0.0503)	0.0356 (0.0338)	0.0240 (0.0315)
Average Callback Rate	38.1	38.1	29.1
$N$	2082	2082	2082
$R^2$	0.106	0.609	0.662
Basic Callbacks	X	X	
Strict Callbacks			X
Baseline Controls	X	X	X
Firm Fixed Effect		X	X
Linear Probability Model	X	X	X

Note: Standard errors in parentheses.

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .

- Implies a decline in callbacks by 22.2%  $\approx$  Belgium.

# Potential Determinants

Table: Determinants of Union Resistance

	(1)	(2)	(3)	(4)
Union	-0.1309*** (0.0315)	-0.1333*** (0.0328)	-0.1344*** (0.0344)	-0.1375*** (0.0384)
Union x CA	0.0453 (0.0341)	0.0463 (0.0343)	0.0603 (0.0349)	0.0478 (0.0342)
Union x Temp Contract	0.0583* (0.0285)	0.0577* (0.0286)	0.0557 (0.0286)	0.0574* (0.0286)
Union x Firms 6 < Emp			0.0401 (0.0392)	
Union x Firms 51 to 500 Emp			0.0088 (0.0317)	
Union x Firms 500 < Emp			-0.1332 (0.0777)	
Sectoral Strikes and Lockouts 2016				0.0024 (0.0092)
<i>N</i>	2082	2082	2082	2082
adj. <i>R</i> <sup>2</sup>	0.612	0.612	0.613	0.611

Note: Standard errors in parentheses.

► Firm Size

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .



# Conclusion

- Union membership decreases invitations to job interviews by 20 to 30%.
- The presents of collective agreements seem to decrease resistance (wage channel?)
- Resistance is lower for temporary employment (uncertainty as a control instrument?)

*THANK YOU FOR YOUR ATTENTION!*

Mail: Patrick-Nuess@BOECKLER.DE

Twitter: @PatrickNuess

Website: <https://sites.google.com/site/patricknuess>

