Survey July Analysis

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2024-11-03

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Randomisation Check

• Randomisation does not look perfect because there is a relationship between gender and one of the experimental factors (how many times was a protest authorisation denied).

Table 1: Randomisation Check

	Dependent variable:			
	factor(denied_twice)	factor(authority)	factor(grievance)	
	(1)	(2)	(3)	
age	0.01*	-0.01	0.01***	
	(0.004)	(0.004)	(0.004)	
genderWoman	0.24**	-0.13	-0.01	
	(0.11)	(0.11)	(0.11)	
university educationBA+	-0.04	0.03	-0.06	
V —	(0.11)	(0.11)	(0.11)	
Constant	-0.40**	0.29	-0.48**	
	(0.20)	(0.20)	(0.20)	
Observations	1,416	1,416	1,416	
Log Likelihood	-978.20	-979.90	-976.30	
Akaike Inf. Crit.	1,964.39	1,967.79	1,960.61	

Note:

*p<0.1; **p<0.05; ***p<0.01

Experiment Analysis (Binary)

- For the "how justified authorities' actions" variable, the values are 1 for "not justified at all" and 10 "very justified".
- Initially, the "how repressive" variable, the values are 1 for "very repressive" and 10 "not repressive at all". The present analysis relies on a reverse coding of the variable where "1" is not repressive at all and "10" is most repressive.
- Analysis below uses the binary coding of the said variables.
- "Do not know" and "refuse to answer" are coded into the "not repressive" and "not justified" category of the resulting binary variable.
- There are 360 "Do not know" and "refuse to answer" in the "how justified" outcome.
- There are 418 "Do not know" and "refuse to answer" in the "how repressive" outcome.

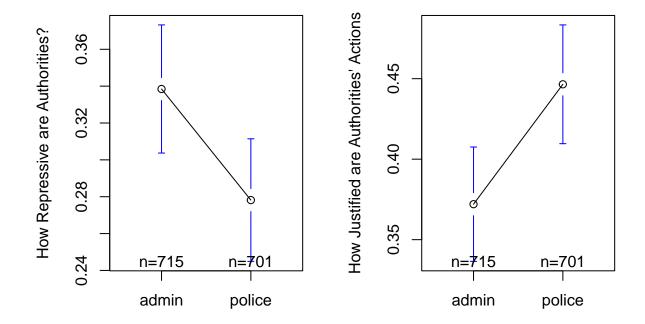
Table 2: Linear Prob. Models for Main Outcomes (Models 2 and 4 are Weighted)

	Dependent variable:			
	How Repressive?		How Ju	ustified?
	(1)	(2)	(3)	(4)
authority (police)	-0.06**	-0.06***	0.07***	0.12***
,	(0.02)	(0.02)	(0.03)	(0.03)
grievance (historical)	-0.04^{*}	-0.09****	0.10***	0.12***
,	(0.02)	(0.02)	(0.03)	(0.03)
denied times (twice)	$0.02^{'}$	0.04	-0.04	$0.02^{'}$
,	(0.02)	(0.02)	(0.03)	(0.03)
Gender (Woman)	-0.04	-0.06**	-0.05**	-0.05^*
,	(0.03)	(0.02)	(0.03)	(0.03)
Age	-0.001	-0.001	0.001	0.003***
	(0.001)	(0.001)	(0.001)	(0.001)
University Education	0.06**	0.06**	0.13***	0.12***
•	(0.02)	(0.03)	(0.03)	(0.03)
Constant	0.38***	0.41***	0.27***	0.15***
	(0.05)	(0.04)	(0.05)	(0.05)
Observations	1,416	1,416	1,416	1,416
\mathbb{R}^2	0.01	0.02	0.04	0.05
Adjusted R^2	0.01	0.02	0.03	0.05
Residual Std. Error ($df = 1409$)	0.46	130.55	0.48	138.97
F Statistic (df = 6 ; 1409)	2.91***	5.67***	9.51***	12.41***

Note:

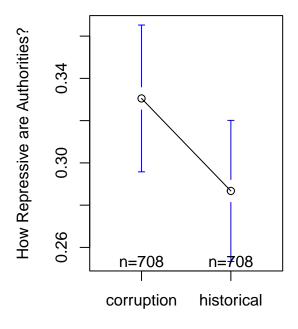
*p<0.1; **p<0.05; ***p<0.01

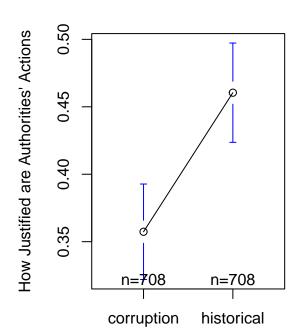
Effect of Authority



Effect of Grievance

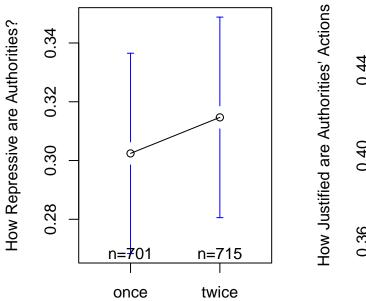
 \bullet Effect of Grievance type is not significant at 0.05 level for "how repressive" but is significant for "how justified".

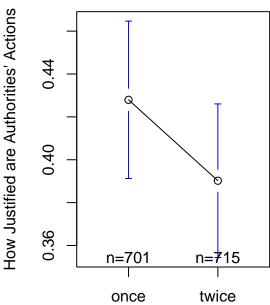




Effect of Times Denied

• The effect of "how many times denied" is not significant for both outcomes.





Experiment Analysis Continous

- This analysis relies on the continuous version of the outcome variables.
- "I do not know" and "refuse to answer" are coded as "5" landing in the middle of the outcome variable distribution.
- There are 360 "Do not know" and "refuse to answer" in the "how justified" outcome.
- There are 418 "Do not know" and "refuse to answer" in the "how repressive" outcome.

Table 3: Linear Models for Main Outcomes (Models 2 and 4 are Weighted)

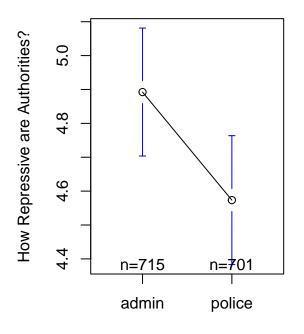
	Dependent variable:			
	How Repressive?		How Ju	ıstified?
	(1)	(2)	(3)	(4)
authority (police)	-0.33**	-0.40***	0.54***	0.83***
	(0.14)	(0.14)	(0.15)	(0.15)
grievance (historical)	-0.54***	-0.75***	0.60***	0.78***
- ,	(0.14)	(0.14)	(0.15)	(0.15)
denied times (twice)	0.22	0.25^{*}	-0.32**	-0.14
, ,	(0.14)	(0.14)	(0.15)	(0.16)
Gender (Woman)	0.20	-0.03	-0.21	0.02
	(0.14)	(0.14)	(0.16)	(0.16)
Age	-0.02***	-0.02***	0.003	0.01***
	(0.005)	(0.004)	(0.01)	(0.01)
University Education	0.01	-0.02	0.46***	0.47***
	(0.14)	(0.16)	(0.15)	(0.18)
Constant	5.66***	6.17***	5.20***	4.31***
	(0.28)	(0.25)	(0.32)	(0.28)
Observations	1,416	1,416	1,416	1,416
\mathbb{R}^2	0.03	0.05	0.03	0.05
Adjusted R^2	0.03	0.04	0.03	0.05
Residual Std. Error $(df = 1409)$	2.54	744.90	2.88	835.34
F Statistic (df = 6 ; 1409)	7.27***	11.99***	7.48***	12.39***

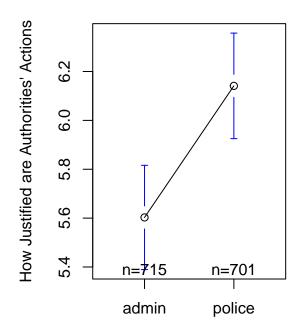
Note:

*p<0.1; **p<0.05; ***p<0.01

Effect of Authority

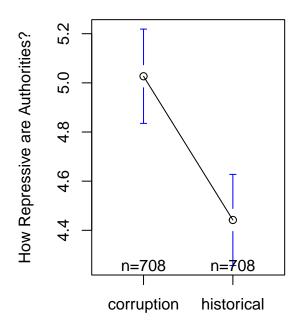
ullet Both outcomes significant

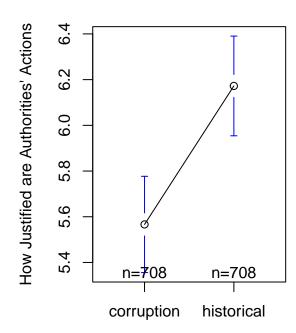




Effect of Grievance

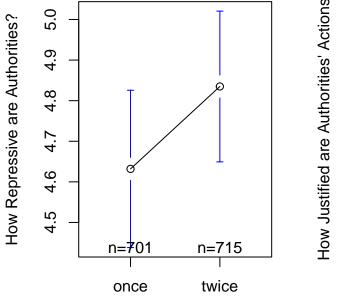
• Effect of Grievance type is significant for both outcomes.

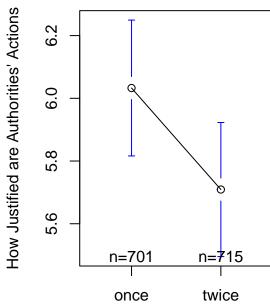




Effect of Times Denied

• The effect of "how many times denied" is significant for "how justified" but not for "how repressive".





Multiple Imputation

- We impute missing values via multiple imputation, with the mice package. We use default parameter specification for imputation: five datasets and 10 iterations. We work with the binary version of the variables, where all "refuse" and "do not know" replies are taken as NA and are imputed.
- Imputation results align with the no imputation results

Term	Not Repressive (Unweighted)	Not Repressive (Weighted)	How Justified (Unweighted)	How Justified (Weighted)	
factor(authority)police	-0.06 [0.03; -2.1]	-0.07 [0.04; -1.68]	0.08 [0.03; 2.95]	0.12 [0.03; 3.74]	
factor(grievance)historical	-0.06 [0.03; -2.16]	-0.09 [0.03; -2.92]	0.08 [0.03; 2.37]	0.11 [0.04; 2.66]	
factor(denied_twice)twice	0.04 [0.03; 1.1]	0.05 [0.04; 1.08]	-0.03 [0.03; -0.93]	0 [0.04; -0.01]	
Gender (Woman)	$0.01 \ [0.03; \ 0.39]$	0 [0.03; 0.07]	0 [0.03; 0.07]	$0.01 \ [0.04; \ 0.22]$	
age	0 [0; -1.4]	0[0; -2.27]	0 [0; -0.17]	0 [0; 0.58]	
University Education (BA+)	$0.01 \ [0.03; \ 0.47]$	0.01 [0.03; 0.41]	0.05 [0.03; 1.91]	0.05 [0.03; 1.47]	
Note: Estimates are pooled from multiple imputed datasets and displayed as Estimate [SE; t-value].					