Survey July Analysis

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Contents

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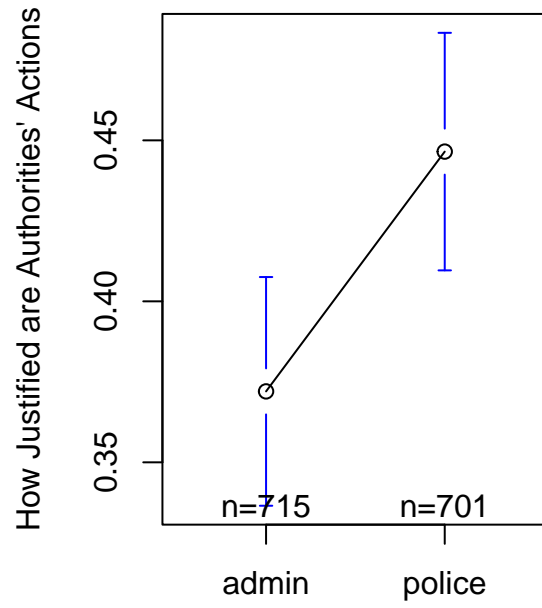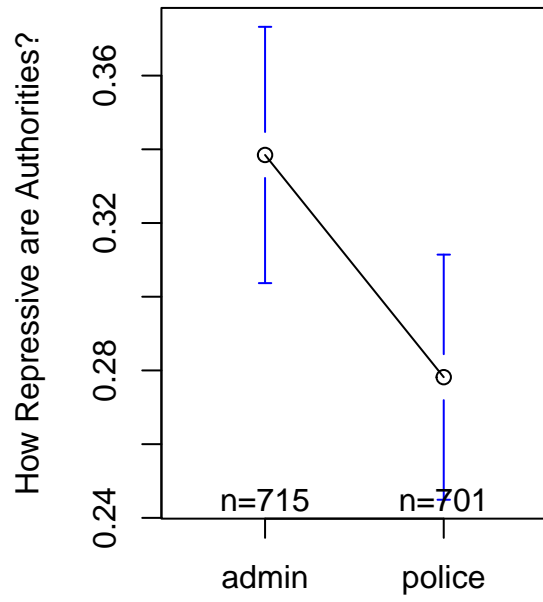
Table 2: Linear Prob. Models for Main Outcomes (Models 2 and 4 are Weighted)

	Dependent variable:			
	How Repressive?		How Justified?	
	(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
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

How Repressive are Authorities?

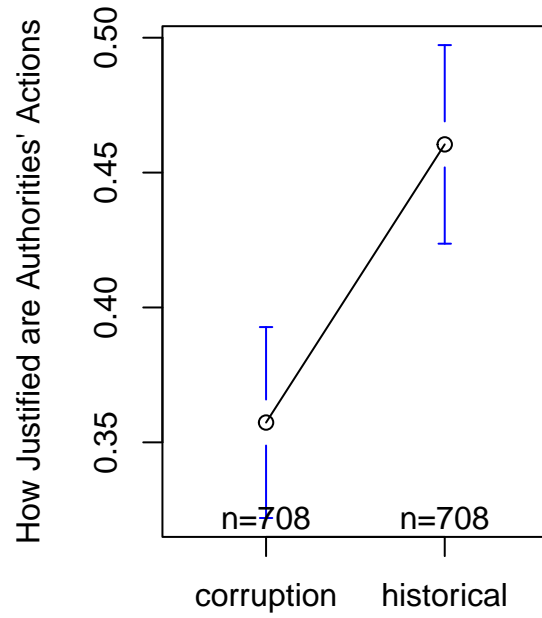admin — n=715, police — n=701

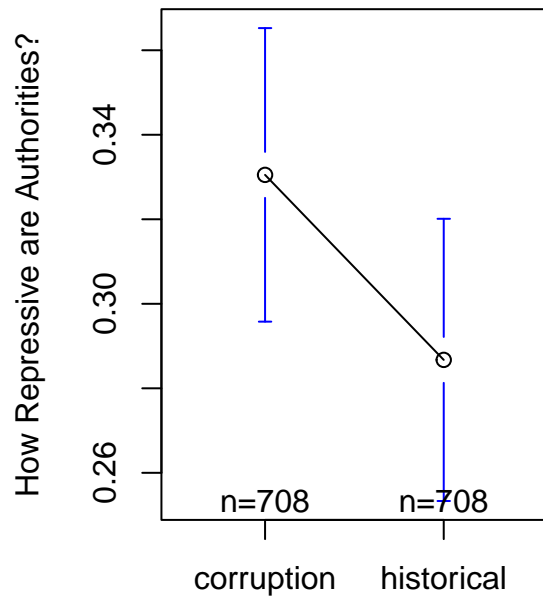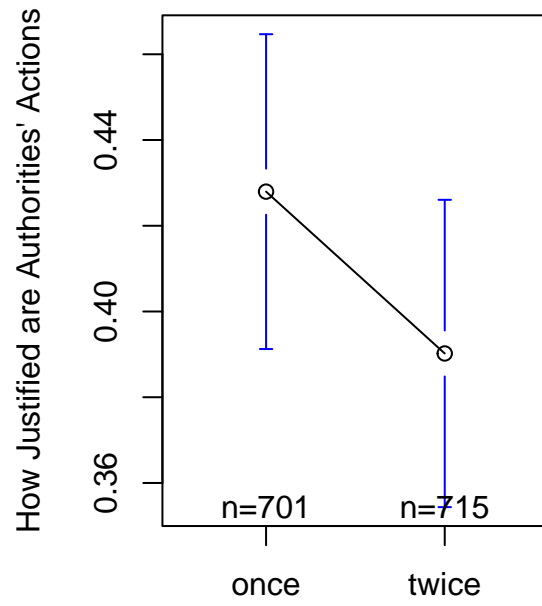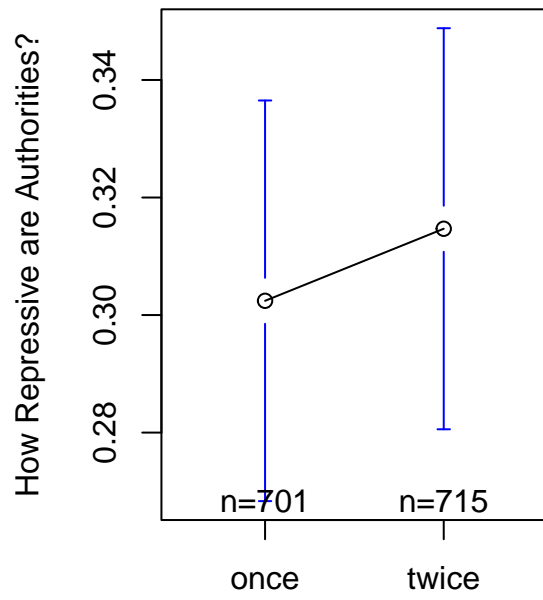How Justified are Authorities' Actions

admin — n=715, police — n=701

Effect of Grievance

- 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 Justified?	
	(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
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
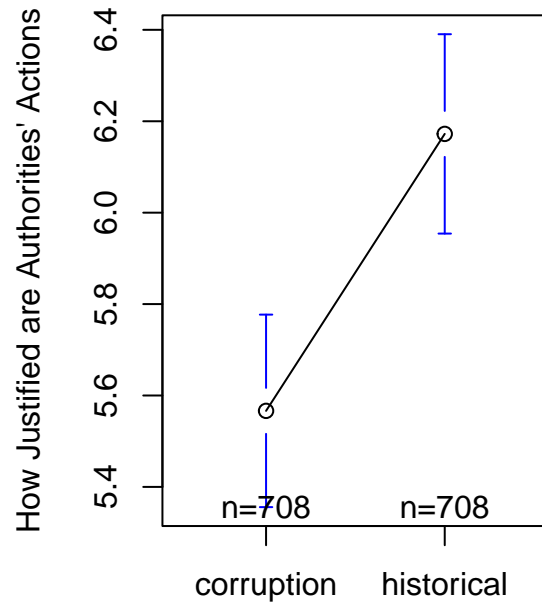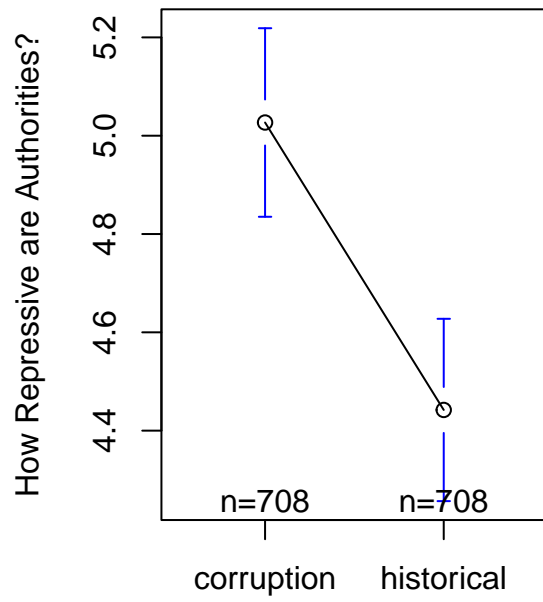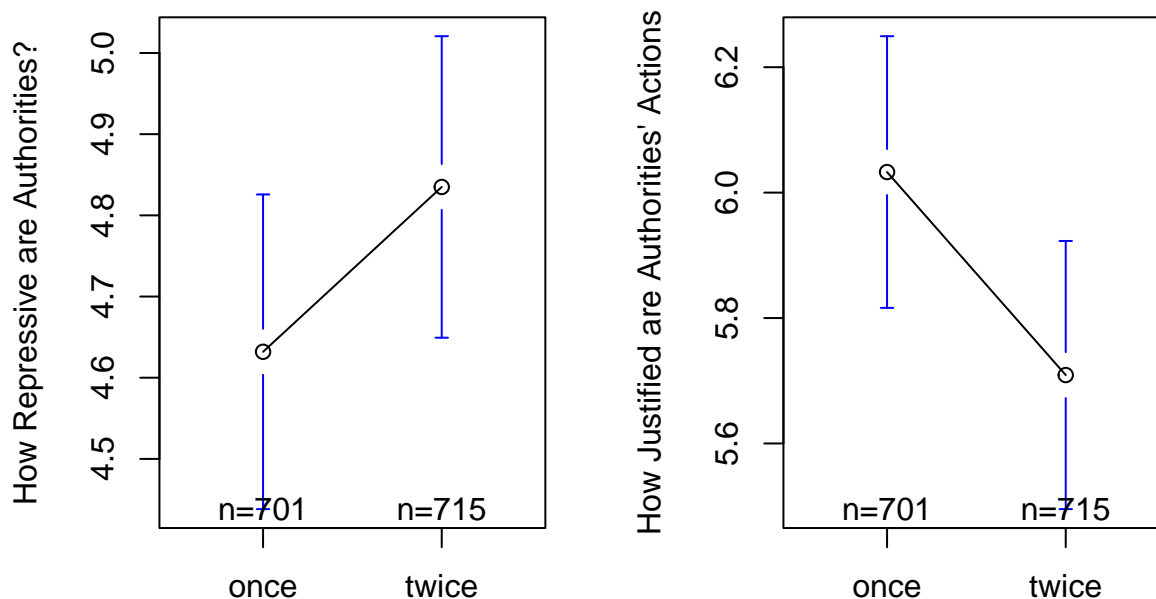
Effect of Authority

- Both outcomes significant
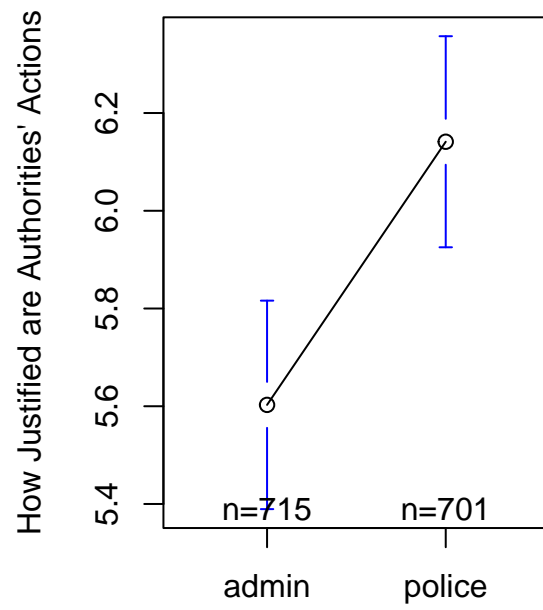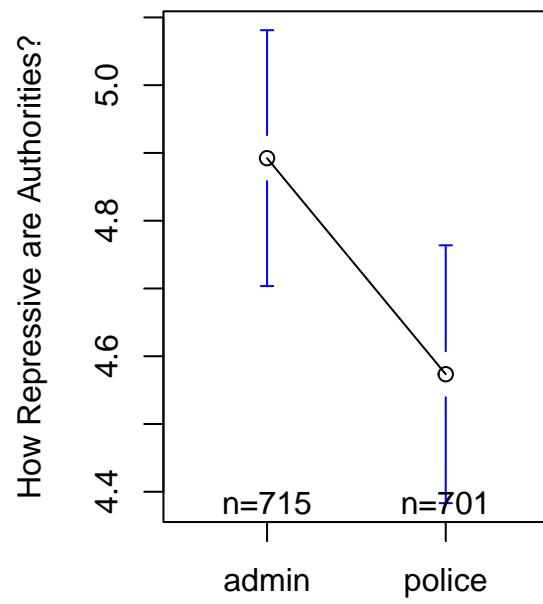
Effect of Grievance

- 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)
factor(authority)police	-0.06 [0.03; -2.25]	-0.07 [0.03; -2.58]	0.08 [0.03; 2.94]
factor(grievance)historical	-0.07 [0.03; -2.2]	-0.09 [0.03; -3.32]	0.07 [0.03; 2.77]
factor(denied_twice)twice	0.03 [0.03; 0.98]	0.05 [0.03; 1.41]	-0.02 [0.03; -0.55]
Gender (Woman)	0.02 [0.03; 0.5]	-0.01 [0.03; -0.44]	-0.01 [0.03; -0.19]
age	0 [0; -0.81]	0 [0; -1.75]	0 [0; -0.23]
University Education (BA+)	0.02 [0.03; 0.59]	0.02 [0.03; 0.52]	0.05 [0.03; 1.57]
Note: Estimates are pooled from multiple imputed datasets and displayed as Estimate [SE; t-value].			