Replication

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Applied Statistics II

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Background of the Study: Research Question

- Main question: how do exclusionary attitudes among the Jewish majority predict discriminatory behaviour towards Palestinian citizens in Israel (PCI)
- Do exclusionary preferences stop individuals from cooperating with one another?
- Does the lack of cooperation therefore prevent societies from providing public goods?
- Authors also aim to understand how exclusionary attitudes are distinct from from behaviors.

Background of the Study: Data

Data:

- Uses lab-in-the-field data to study cooperation and exclusionary attitudes of Jewish people towards Palestinian Citizens of Israel (PCI)
- Measure cooperation (behaviours) with an economic decision making game
- Measure exclusionary attitudes with a social distance scale which asks participants to choose the degree of proximity that they would accept an outgroup member. Responses range from family relative to no relationship.

Background of the Study: Variables

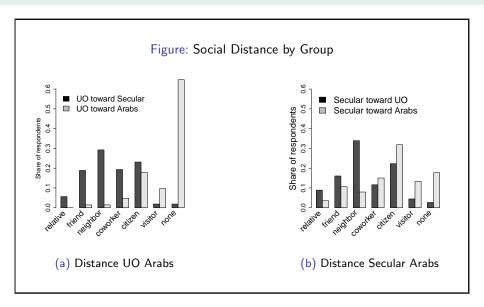
Variables:

- arab_accept, arab_accept_character, arab_reject_binary all variables corresponding to the level of exclusionary attitudes towards PCI, either in categorical form, continuous numeric, or binary. arab_accept levels are: relative 1, friend 2, neighbor 3, coworker 4, citizen 5, visitor 6, and none 7
- age continuous age variable
- foreign_born binary variable, 1 corresponding to foreign born
- sex binary variable, 1 corresponding to male
- left_right ordinal variable, 1 meaning far left to 7 meaning far right
- religiosity categorical data with levels anti, orthodox, secular, traditional, ultra-orthodox (treated as ordinal in the manuscript but treated as categorical dummies in all analysis)
- education ordinal variable with levels graduate, high school, primary, and undergraduate
- income ordinal with levels average, high, low, very high, very low

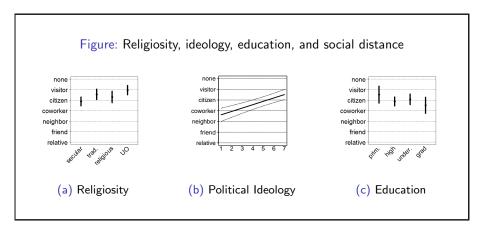
Background of the Study: Hypotheses

- Levels of exclusionary attitudes are high among the Jewish majority towards PCI
- These levels of exclusion are highest for lower-status Jews (low SES, uneducated, and the ultra-Orthodox population)
- Exclusionary attitudes are symbolic, meaning they are stable and affect other attitudes.
- Cooperation is informed/predicted by exclusionary attitudes preferences for exclusion. In other words, those with greater exclusionary attitudes towards PCI are also less likely to cooperate with PCI.
- The attitudes-behaviour connection is not moderated by other factors such as perceptions of Arabs' trustworthiness.

Their Models



Their Models



Their Models

Table 1

	Amon. A	
	P	
		t variable: nce with PCI
	(1)	(2)
Age	-0.003	-0.004
Age	(0.005)	(0.005)
Foreign Born	-0.326*	-0.246
conga man	(0.197)	(0.188)
Sex	-0.519***	-0.376***
	(0.149)	(0.144)
Left-right	0.314***	0.276***
and the same	(0.055)	(0.052)
Sorular	-0.425*	-0.353
No. man	(0.256)	(0.246)
Traditional	0.236	0.287
	(0.285)	(0.272)
Ultra Orthodox	0.650***	0.495**
	(0.241)	(0.232)
Hirh-school	0.368	0.250
riga-acason	(0.337)	(0.321)
Primary-school	1.013**	0.634
	(0.466)	(0.458)
Undergrad	0.570*	0.430
, managema	(0.340)	(0.325)
Tirh income	-0.474*	-0.384
anger announce	(0.270)	(0.260)
Low income	-0.096	-0.180
JOW HALLMAN	(0.216)	(0.208)
	0.151	-0.108
Very high income	(0.402)	(0.387)
Very low income	-0.002	0.048
very sow income	(0.202)	(0.195)
Mixed	-0.358	-0.478*
MIXEG	(0.283)	(0.269)
Other	0.232	-0.186
Other	(0.456)	(0.438)
Sephardic	0.132	0.137
жрим ик.	(0.163)	(0.157)
Month	(0.103)	0.931***
annan		(0.296)
Never		1.486***
MOVE		(0.259)
Neck		0.469
THE R. L.		(0.311)
Vear		1.166***
1104		
Constant	3.846***	(0.312)
Comstant		
	(0.556)	(0.560)
Observations	375	372
R ²	0.289	0.370
Adjusted R ²	0.255	0.332
Residual Std. Error	1.345 (df = 357)	1.277 (df = 350)

Table 2

		Dependen	t variable:			
	Cooperation with PCI (=1)					
	(1)	(2)	(3)	(4)		
Social Distance (binary)	-0.820***	-0.631**	-0.639**	-0.579*		
	(0.243)	(0.306)	(0.264)	(0.319)		
Age		-0.002		-0.002		
		(0.008)		(0.008)		
Foreign Born		0.137		0.053		
		(0.318)		(0.325)		
Sex		0.318		0.286		
		(0.245)		(0.251)		
Left-right		-0.208**		-0.198**		
		(0.093)		(0.095)		
Secular		-0.916**		-1.097**		
		(0.411)		(0.424)		
Traditional		-0.728		-0.919*		
		(0.459)		(0.470)		
Ultra Orthodox		-0.357		-0.501		
		(0.386)		(0.394)		
High-school		0.826		0.974		
angar-manna		(0.583)		(0.604)		
Primary school		0.934		1.060		
		(0.773)		(0.792)		
Undergrad		0.469		0.604		
		(0.590)		(0.613)		
High		-0.085		-0.036		
******		(0.435)		(0.441)		
Low		-0.409		-0.430		
LOW		(0.348)		(0.353)		
Very high		0.158		0.086		
tery mga		(0.625)		(0.632)		
Very low		-0.356		-0.326		
very low		(0.323)		(0.326)		
Mixed		-0.135		-0.137		
MIXINI		(0.456)		(0.460)		
Other		0.593		0.998		
Other		(0.715)		(0.752)		
Sephardic		-0.312		-0.262		
Sepnardic		(0.267)				
Trust in Arabs		(0.207)	0.536*	(0.270)		
Trust in Arabs						
Constant	-0.045	1.035	(0.291) -0.271	(0.341)		
Constant						
	(0.213)	(0.905)	(0.249)	(0.942)		
Observations	439	375	432	371		
Log Likelihood	-274.275	-226.808	-268.588	-222.143		
Akaike Inf. Crit.	552,549	491.617	543,176	484.285		

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



My Replication: Overview

- For my twist, I:
 - Checked the model-fit of the ordered multinomial regression using a parallel line assumption test and analysing the cutpoints of the model
 - Ran an unordered model on the complete outcome data as well as the binary exclusionary attitudes model
 - Checked the fit of the unordered models
 - Determined which model was most useful and if the authors were justified in using a linear model for categorical data

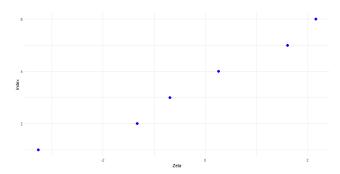
- What did the authors say?
- "Ordered logit regression provides substantively similar results." (p. 749).
- I ran their code included in the replication files along with my own code to ensure that the model was run properly

Table 3

	Dependent	
	arab_acceptTES	T arab_accep
	(1)	(2)
age	-0.007 (0.007)	-0.007 (0.007)
foreign_born1	-0.426 (0.275)	-0.426 (0.275)
as.factor(as.character(religiosity))secular	-0.617° (0.360)	-0.617^{*} (0.360)
as.factor(as.character(religiosity))trad	0.225 (0.409)	0.225 (0.409)
as.factor(as.character(religiosity))u_orthodox	0.849** (0.354)	0.849** (0.354)
sex1	-0.778*** (0.219)	-0.778*** (0.219)
as.factor(education)high	0.264 (0.485)	0.264 (0.485)
as.factor(education)primary	1.211* (0.702)	1.211* (0.702)
as.factor(education)undergrad	0.445 (0.490)	0.445 (0.490)
as.factor(income)high	-0.606 (0.372)	-0.606 (0.372)
as.factor(income)low	-0.018 (0.307)	-0.018 (0.307)
as.factor(income)v_high	0.010 (0.550)	$0.010 \\ (0.550)$
as.factor(income)v_low	0.059 (0.290)	0.059 (0.290)
left_right	0.406*** (0.082)	0.406*** (0.082)
as.factor(ethnicity)mixed	-0.403 (0.404)	-0.403 (0.404)
as.factor(ethnicity)other	$0.250 \\ (0.612)$	$0.250 \\ (0.612)$
as.factor(ethnicity)sep	0.213 (0.240)	0.213 (0.240)
Observations	375	375
Note:	*p<0.1; **p<0.	

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• Then I plotted the intercepts:



- Long (1997) states that "in general, the results of the LRM only correspond to those of the ORM if the thresholds are all about the same distance apart. When this is not the case, the LRM can give very misleading results."
- This also serves as a first indication that the linear regression model might be giving skewed results.

• Multinomial Model Results:

- significant at the p < 0.001 level: sex/gender, and political ideology (left/right).
- significant at the p < 0.05 level: ultra-Orthodox religious identity (compared to orthodox as the reference category)
- significant at the p < 0.01 level: secular religious identity (compared to orthodox as the reference category), and primary education level (compared to grad).

OLS Results:

- significant at the p < 0.001 level: sex/gender, political ideology (left/right), and ultra-Orthodox (compared to Orthodox).
- significant at the p < 0.05 level: primary educational level (compared to grad as reference category)
- significant at the p < 0.01 level: foreign born (compared to not foreign born as the reference category), secular religious identity (compared to orthodox as reference category), undergraduate educational level (compared to grad as reference category), and high income (compared to average as the reference category) and primary education level (compared to grad).

Conclusions

- The linear model contains significance for the variables foreign born, undergraduate, and high income that the multinomial model does not show as significant
- I am going to assume that they consider this meets the standard for 'substantively similar results' to therefore use OLS as the primary model.
- Note: the significance levels of the multinomial model were confirmed with Cls for log-odds and odds ratios

Next we can look at the results of the parallel line assumption test

Parallel Line Assumption

Table 6

	Dependent variable:							
	$arab_acceptTEST == levels(arab_acceptTEST)[i]$							
	(Relative)	(Friend)	(Neighbor)	(Coworker)	(Citizen)	(Visitor)	(None)	
age	-0.031 (0.039)	-0.031* (0.019)	0.013 (0.020)	-0.008 (0.012)	0.033*** (0.009)	0.010 (0.013)	-0.021** (0.008)	
foreign_born1	-18.790 $(7,232.651)$	1.953*** (0.736)	0.184 (0.713)	-0.500 (0.512)	0.088 (0.362)	-0.018 (0.479)	-0.356 (0.346)	
as.factor(as.character(religiosity)) secular	19.305 (9,884.922)	0.179 (0.980)	-0.756 (0.865)	-0.351 (0.536)	1.246** (0.574)	0.616 (0.638)	-1.145** (0.431)	
as.factor(as.character(religiosity)) trad	18.834 (9,884.922)	-1.224 (1.226)	-0.871 (1.036)	-0.881 (0.712)	0.851 (0.619)	-0.072 (0.739)	0.185 (0.450)	
$as.factor(as.character(religiosity)) u \verb orthodox $	-0.118 (11,153.780)	-0.842 (1.102)	-2.310** (1.051)	-1.820^{***} (0.578)	0.734 (0.556)	0.085 (0.625)	0.649° (0.381)	
sex1	0.349 (1.365)	1.135* (0.630)	-0.029 (0.613)	0.102 (0.393)	0.663** (0.291)	0.016 (0.365)	-0.865** (0.255)	
as.factor(education)high	18.275 (13,139.300)	-1.529 (0.940)	1.073 (1.332)	-0.881 (0.721)	0.810 (0.743)	15.536 (861.706)	-0.305 (0.581)	
as.factor(education)primary	1.839 (19,616.320)	-17.209 $(1,415.656)$	-15.837 (3,812.976)	-1.165 (1.257)	0.800 (0.945)	14.892 (861.706)	0.618 (0.779)	
as.factor(education)undergrad	-0.556 (14,362.630)	-3.270** (1.318)	1.078 (1.322)	-0.556 (0.725)	0.775 (0.747)	15.683 (861.706)	-0.207 (0.587)	
ss.factor(income)high	0.180 (1.742)	0.838 (1.056)	1.891 (1.175)	-0.385 (0.643)	-0.307 (0.491)	-0.046 (0.688)	-0.452 (0.490)	
as.factor(income)low	-0.375 (1.586)	1.481 (0.962)	-15.752 (1,652.911)	-0.161 (0.531)	-0.148 (0.375)	-0.731 (0.597)	0.193 (0.364)	
ss.factor(income)v_high	-17.820 (16,584.300)	-0.230 (1.706)	-16.210 (4,497.914)	-1.130 (1.152)	0.497 (0.682)	0.499 (0.899)	-0.276 (0.695)	
is.factor(income)v_low	0.230 (1.548)	0.740 (0.977)	1.808 (1.137)	-0.076 (0.506)	-0.928** (0.383)	0.345 (0.483)	0.180 (0.339)	
eft_right	-0.651 (0.449)	-0.759*** (0.216)	-0.580** (0.240)	-0.163 (0.140)	-0.039 (0.106)	0.334** (0.152)	0.279*** (0.095)	
s.factor(ethnicity)mixed	1.456 (1.788)	1.301 (0.946)	-0.163 (0.983)	-1.118 (0.815)	0.701 (0.533)	-0.196 (0.820)	-0.495 (0.501)	
as.factor(ethnicity)other	-17.986 $(20,241.190)$	0.024 (1.304)	0.944 (1.049)	-16.232 $(1,205.275)$	-14.705 (726.996)	1.234 (0.842)	0.225 (0.794)	
s.factor(ethnicity)sep	0.500 (1.574)	0.650 (0.709)	-0.606 (0.773)	-0.837* (0.432)	0.032 (0.316)	0.172 (0.412)	0.217 (0.278)	
Constant	$^{-37.035}_{(16,442.410)}$	1.336 (1.849)	-1.921 (2.076)	1.242 (1.292)	-4.108*** (1.161)	-20.199 (861.707)	-0.216 (0.945)	
Observations og Likelihood	375 -13.329	375 -51.361	375 -43.917	375 -107.725	375 -174.212	375 -116.887	375 -212.735	

*p<0.1: **p<0.05: ***p<0.01

Parallel Line Assumption

- We can see that the parallel line assumption does not appear to hold, as we have sign changes as we move along the acceptance categories
- In this case, we can run an unordered model to see if this is a better fit

My Replication: Unordered Multinomial - Log Odds

Table 7

			Depender	nt variable:		
	relative	friend	neighbor	coworker	citizen	visitor
	(1)	(2)	(3)	(4)	(5)	(6)
age	-0.024	-0.019	0.017	0.003	0.036***	0.021
	(0.041)	(0.020)	(0.021)	(0.014)	(0.011)	(0.014)
foreign_born1	-18.421***	2.039**	0.558	-0.178	0.367	0.188
	(0.00000)	(0.792)	(0.769)	(0.573)	(0.425)	(0.522)
sex1	1.153	1.802***	0.734	0.715*	1.063***	0.455
	(1.412)	(0.668)	(0.650)	(0.429)	(0.327)	(0.389)
left_right	-1.078**	-1.063***	-0.881***	-0.422***	-0.242*	0.130
	(0.489)	(0.243)	(0.270)	(0.162)	(0.124)	(0.162)
as.factor(as.character(religiosity))secular	14.080***	0.718	-0.120	0.353	1.831***	1.310*
	(0.923)	(1.022)	(0.938)	(0.604)	(0.635)	(0.687)
as.factor(as.character(religiosity))trad	12.588***	-1.617	-1.271	-1.056	0.609	-0.126
	(0.957)	(1.255)	(1.110)	(0.763)	(0.660)	(0.767)
as.factor(as.character(religiosity))u_orthodox	-7.714***	-1.521	-2.830***	-2.047***	0.330	-0.154
	(0.000)	(1.140)	(1.098)	(0.619)	(0.591)	(0.652)
as.factor(education)high	10.577***	-1.171	1.032	-0.711	0.620	27.344**
	(1.182)	(1.053)	(1.465)	(0.801)	(0.825)	(0.476)
as.factor(education)primary	-1.296***	-46.280	-23.232***	-1.662	0.129	26.348**
	(0.00000)	(NA)	(0.000)	(1.340)	(1.017)	(0.894)
as.factor(education)undergrad	-8.259****	-3.053**	0.742	-0.581	0.518	27.443**
	(0.00000)	(1.407)	(1.460)	(0.812)	(0.827)	(0.482)
as.factor(income)high	1.071	1.510	2.335*	0.296	0.207	0.291
	(1.797)	(1.147)	(1.248)	(0.733)	(0.589)	(0.756)
as.factor(income)low	-0.103	1.492	-31.733***	-0.120	-0.163	-0.766
	(1.619)	(1.015)	(0.000)	(0.584)	(0.426)	(0.629)
as.factor(income)v_high	-11.807***	-0.230	-17.987***	-0.893	0.594	0.655
	(0.00000)	(1.822)	(0.00000)	(1.263)	(0.800)	(0.987)
as.factor(income)v_low	0.376	0.793	1.757	-0.062	-0.799*	0.190
	(1.592)	(1.024)	(1.176)	(0.551)	(0.426)	(0.514)
as.factor(ethnicity)mixed	1.622	1.688	0.118	-0.596	0.965	0.167
	(1.839)	(1.036)	(1.071)	(0.890)	(0.624)	(0.871)
as.factor(ethnicity)other	-16.002***	-0.723	0.054	-30.247***	-27.855***	0.822
	(0.00000)	(1.498)	(1.232)	(0.000)	(0.000)	(0.937)
as.factor(ethnicity)sep	0.132	0.337	-0.809	-0.887*	-0.112	0.016
	(1.529)	(0.737)	(0.804)	(0.470)	(0.353)	(0.435)
Constant	-21.131***	2.811	0.161	2.361	-2.519*	-30.769*
	(1.182)	(2.054)	(2.326)	(1.477)	(1.320)	(1.046)

Akaike Inf. Crit

My Replication: Unordered Multinomial- Odds Ratio

Table 8

	Dependent variable:							
	relative	friend	neighbor	coworker	citizen	visitor		
	(1)	(2)	(3)	(4)	(5)	(6)		
Intercept)	6.651812e-10	16.62011	1.174264	10.6033	0.08055344	4.337311e-14		
age	0.9766339	0.9813665	1.0170968	1.0027272	1.0362798	1.0211608		
oreign_born1	9.993412e-09	7.680720	1.746663	0.8367114	1.442817	1.206234		
ex1	3.167965	6.061605	2.082368	2.044595	2.895577	1.576944		
eft_right	0.3402059	0.3454747	0.4144849	0.6555768	0.7852415	1.1388934		
s.factor(as.character(religiosity))secular	1.302773e+06	2.051171	0.8867322	1.42354	6.238936	3.706946		
s.factor(as.character(religiosity))trad	2.929564e+05	0.1985388	0.2804708	0.3477121	1.837836	0.8815897		
s.factor(as.character(religiosity))u_orthodox	0.000446421	0.2185649	0.05903657	0.1291617	1.390973	0.8576777		
s.factor(education)high	39234.80	0.3101697	2.807297	0.4909893	1.858677	75069310000		
s.factor(education)primary	0.2736024	7.959215e-21	8.13683e-11	0.1896932	1.137379	2.771624e+1		
s.factor(education)undergrad	0.0002588371	0.04723659	2.100926	0.5594632	1.678288	8.285699e+1		
s.factor(income)high	2.919292	4.528083	10.32993	1.34446	1.229912	1.337493		
s.factor(income)low	0.9019111	4.446884	1.654761e-14	0.886939	0.8492521	0.4649023		
s.factor(income)v_high	7.451886e-06	0.7944283	1.542646e-08	0.4094867	1.81096	1.92551		
s.factor(income)v_low	1.4566613	2.2092725	5.7967432	0.9400315	0.4495974	1.2089442		
s.factor(ethnicity)mixed	5.06502	5.408902	1.125156	0.550868	2.624276	1.181947		
s.factor(ethnicity)other	1.123243e-07	0.4855062	1.055101	7.309264e-14	7.992025e-13	2.275707		
s.factor(ethnicity)sep	1.1416274	1.4000588	0.4451049	0.4117924	0.8942012	1.0161241		

Note:

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

My Replication: Unordered Multinomial - Prediction Table

Table 9: Prediction Accuracy

		Predictions						
Actual Outcomes	none	relative	friend	neighbor	coworker	citizen	visitor	Sum
citizen	40.00	0.00	2.00	1.00	2.00	38.00	0.00	83.00
coworker	19.00	0.00	2.00	1.00	7.00	8.00	0.00	37.00
friend	5.00	0.00	8.00	1.00	1.00	3.00	1.00	19.00
neighbor	5.00	0.00	0.00	4.00	1.00	5.00	0.00	15.00
none	157.00	0.00	2.00	1.00	3.00	13.00	1.00	177.00
relative	1.00	1.00	1.00	0.00	0.00	1.00	0.00	4.00
visitor	26.00	0.00	0.00	1.00	2.00	10.00	1.00	40.00
Sum	253.00	1.00	15.00	9.00	16.00	78.00	3.00	375.00

My Replication: Unordered Multinomial - Conclusions

- The model tends to overpredict the "none" outcome and underpredict the visitor outcome.
- The results of the unordered multinomial regression are very messy and hard to interpret due to the number of outcomes possible and the amount of predictors used in the model.
- Instead run model with outcome as a binary variable, which the authors do in their second model of cooperation.
- The outcome variable is instead everyone who said they would accept a PCI as a coworker or closer as low exclusionary preference and all other options as high exclusionary preference

My Replication: Binary Logistic Regression - Log Odds

Table 10

_	Dependent variable.
	arab_reject_binary
ge	0.014
	(0.010)
reign_born1	-0.227
	(0.392)
x1	-0.565*
	(0.320)
ft_right	0.588***
	(0.124)
.factor(as.character(religiosity))secular	0.500
chector (as-crimineter (religiosity)) secular	(0.468)
.factor(as.character(religiosity))trad	1.169*** (0.577)
s.factor(as.character(religiosity))u_orthodox	2.173*** (0.512)
s.factor(education)high	1.082* (0.617)
s.factor(education)primary	2.606**
	(1.261)
.factor(education)undergrad	1.383**
	(0.639)
.factor(income)high	-0.778
	(0.526)
.factor(income)low	-0.308
	(0.466)
.factor(income)v_high	1.227
	(0.988)
.factor(income)v_low	-0.535
incide (income) v 2000	(0.437)
6 . (4	0.191
s.factor(ethnicity)mixed	(0.545)
.factor(ethnicity)other	0.676 (0.857)
.factor(ethnicity)sep	0.544 (0.362)
onstant	-3.922***
	(1.152)
kaike Inf. Crit.	329.296

Note:

My Replication: Binary Logistic Regression - Odds Ratios

Table 11

	ORUnordBin
(Intercept)	0.02
age	1.01
foreign_born1	0.80
sex1	0.57
left_right	1.80
as.factor(as.character(religiosity))secular	1.65
as.factor(as.character(religiosity))trad	3.22
as.factor(as.character(religiosity))u_orthodox	8.78
as.factor(education)high	2.95
as.factor(education)primary	13.54
as.factor(education)undergrad	3.99
as.factor(income)high	0.46
as.factor(income)low	0.73
as.factor(income)v_high	3.41
as.factor(income)v_low	0.59
as.factor(ethnicity)mixed	1.21
as.factor(ethnicity)other	1.97
as.factor(ethnicity)sep	1.72

My Replication: Binary Logistic Regression - Predictions

Table 12

	0	1	Sum
0	27.00	48.00	75.00
1	14.00	286.00	300.00
Sum	41.00	334.00	375.00

My Replication: Binary Logistic Regression - Conclusions

- These results make significantly more sense and are easier to interpret.
- This prediction table implies that the model correctly predicts exclusionary attitudes relatively well (286/300) but not non-exclusionary attitudes (27/75).

My Replication: Conclusions

- The authors found that "In this article, we have shown that social distance, a measure of exclusionary preferences, is strongly predictive of cooperation in a public goods game" (p. 753).
- The authors also state "Political ideology, education, and religiosity all appear to be strongly related to social distance, with more right-wing, more religious, and less-educated subjects expressing more exclusionary preferences" (p. 749).
- My results indicate that the conclusion that the 'results are substantively similar' is partially justified. Based on the conclusions drawn by the authors about which factors are significant in their overall analysis, the results are justified.

My Replication: Conclusions

- Overall, it seems as though all of the models I tested seem to be relatively good at predicting a lack of acceptance towards PCI.
- Each model has its own setback: the OLS model such that the
 outcome variable is not continuous in nature and the cut points of the
 ordinal model imply that this model might be skewed; the ordinal
 model does not pass the parallel line assumption test; and the
 unordered model produces strangely high odds ratios and has quite
 poor predictive power.
- Overall: the scale from which the major conclusions were drawn from might be skewed, leading to abnormal results. This is supported by Weinfurt and Moghaddam (2001), who state the difficulties of using the social closeness scale as an ordinal measure in various cultural contexts

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