Replication Project

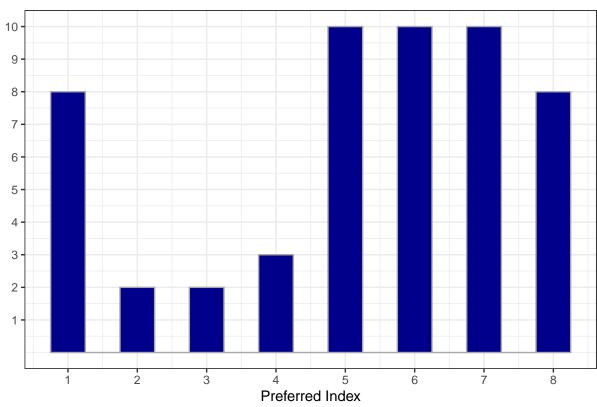
POLI 271: Advanced Statistical Applications

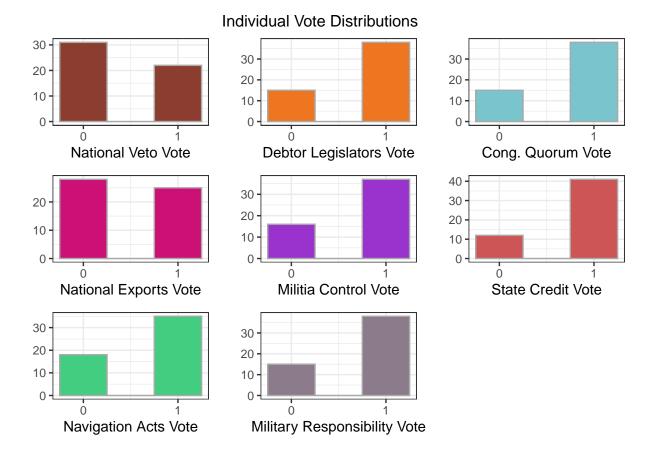
Zayne Sember

4/27/2021

1. A histogram of the dependent variable

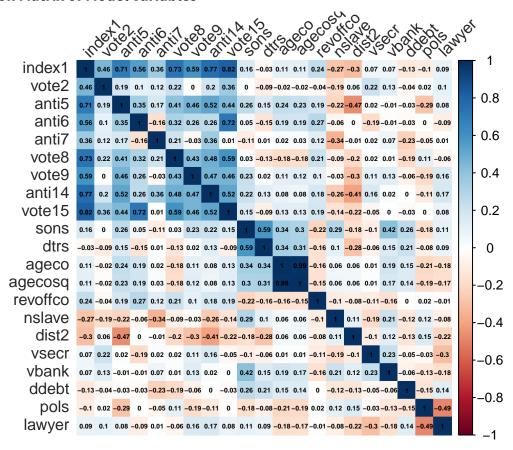
Preferred Vote Index Distribution





2. A correlation matrix for the DV and IVs that the original authors included in the model you are replicating

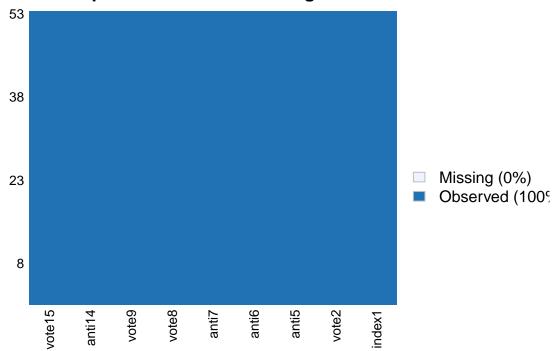
Correlation Matrix of Model Variables



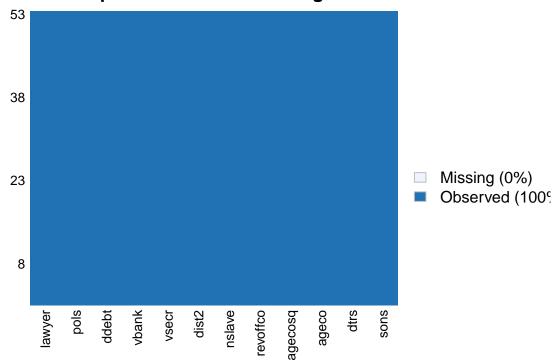
Note: index, anti, and vote variables are dependent in the paper, all others are independent.

3. A visual or tabular depiction of the missingness in the data from part (2); see p. 251-255 of the text.





Independent Variable Missingness



While there is no missingness visible in the replication dataset, the authors do state that "The second reason for McDonald's selection of the sixteen key votes is that he claimed there is enough information from Farrand's Records, delegate diaries, and other sources—to estimate how each individual delegate would have voted on this issue" (Pope and Schmidt 2021, 6). This implies that data is missing but was imputed by the authors. A replication extension could be to determine which data points are imputed and do sensitivity testing without those data.

	Preferred Index	National Veto	Debtor Legislators	Cong. Quorum.	National Exports	Militia Control	State Credit	Navigation Acts	Military Responsibility
Constant	1.5761**	-0.8428	5.2871	-0.145	1.1759	3.558	3.3865	-0.5376	-0.2885
	(0.6201)	(2.5183)	(5.8207)	(2.7763)	(2.4629)	(3.4989)	(4.5006)	(2.781)	(2.8103)
Number of sons	0.1471***	0.1337	1.0216**	0.2766	-0.2431	0.4603**	0.7185***	0.4936***	0.554***
	(0.0369)	(0.1679)	(0.397)	(0.195)	(0.185)	(0.1992)	(0.2457)	(0.1633)	(0.2003)
Number of daughters	-0.1237***	-0.1777	-0.21	-0.5008**	0.1502	-0.337*	-0.4406*	-0.1289	-0.5563**
Age	(0.0387)	(0.1621)	(0.3115)	(0.2324)	(0.1813)	(0.1736)	(0.2274)	(0.1681)	(0.2181)
	-0.0024	-0.0213	-0.1841	0.0503	-0.0455	-0.0871	-0.1537	-0.0011	0.0216
	(0.0249)	(0.1027)	(0.2801)	(0.1116)	(0.0961)	(0.1341)	(0.1989)	(0.1116)	(0.1136)
Age squared	1e-04	3e-04	0.0024	-1e-04	5e-04	7e-04	0.0019	3e-04	2e-04
	(2e-04)	(0.001)	(0.0031)	(0.001)	(9e-04)	(0.0013)	(0.0021)	(0.001)	(0.0011)
Revolutionary war officer	0.2734**	0.0665	1.5307**	1.1542**	0.3254	0.7886	0.64	0.8878*	0.6937
	(0.1085)	(0.394)	(0.6031)	(0.5296)	(0.3965)	(0.4921)	(0.4755)	(0.4917)	(0.4655)
Logged number of slaves	-0.003***	-0.0058	-0.0129**	-0.0037	-0.0143**	-0.0058*	-0.0021	-0.0088**	-0.0068*
	(9e-04)	(0.0036)	(0.0053)	(0.0032)	(0.0055)	(0.0033)	(0.0043)	(0.0042)	(0.0037)
Distance to navigable coastline	-0.003**	0.0027	-0.0177**	-0.0036	0.001	-0.0083*	-0.0071	-0.0085*	-0.0088*
Public securities (1000s, 1787 dollars)	(0.0014)	(0.0044)	(0.007)	(0.0046)	(0.0044)	(0.0046)	(0.0047)	(0.0047)	(0.0051)
	0.0079	0.1839*	-0.0688	-0.2098**	-0.096	-0.0488	0.2041*	0.1757	-0.0319
	(0.0313)	(0.1047)	(0.1712)	(0.1016)	(0.0991)	(0.1143)	(0.1141)	(0.116)	(0.1099)
Private securities (1000s, 1787 dollars)	-3e-04 (0.0037)	0.0428 (0.0337)	-0.0671 (0.0457)	-0.006 (0.0236)	0.0637** (0.0309)	0.0091 (0.0285)	-	0.0028 (0.0365)	0.0058 (0.0411)
Debtor (dummy)	-0.7212*** (0.1293)	-0.3129 (0.9179)	-2.5127*** (0.6904)	0.3415 (0.805)	-	-2.2933** (0.9614)	-1.3796** (0.5711)	-1.0679* (0.5881)	-0.8522 (0.5228)
Politician	0.1066	0.8985*	-0.9654	-0.227	0.0702	0.3066	0.0208	0.7247	0.7975
	(0.1434)	(0.5122)	(0.6683)	(0.539)	(0.5339)	(0.5844)	(0.5728)	(0.5805)	(0.5147)
Lawyer	0.0983	1.1013**	-0.9862	-0.9131	-0.0612	-0.4247	0.89	0.8547	0.4445
Observations	(0.1154)	(0.4731)	(0.6789)	(0.6083)	(0.4971)	(0.5948)	(0.6302)	(0.5516)	(0.5579)
	53	53	53	53	53	53	53	53	53