

# Class-based network segregation, Economic Inequality and Redistributive Preferences across societies

Supplementary material

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# 1 Additional analysis

## 1.1 OECD Countries

Table 1: Multilevel models for Income Inequality, Network segregation and Redistributive Preferences

	Model 1	Model 2	Model 3	Model 4
Class-based network homogeneity (CWC)	-0.48 (1.52)	-0.56 (1.46)	-0.59 (1.50)	-7.95 (1.78)***
Social Class (Ref.= Service Class)				
Intermediate Class	1.65 (0.59)**	1.70 (0.57)**	1.69 (0.58)**	2.47 (0.58)***
Working Class	3.46 (0.97)***	3.47 (0.96)***	3.48 (0.97)***	3.51 (0.94)***
Macro-level factors				
Income inequality (Gini index)	1.69 (1.67)	-2.59 (1.65)	-0.79 (2.69)	0.17 (2.79)
GDP/capita		-7.44 (1.74)***	-6.69 (1.82)***	-6.62 (1.82)***
Size of the welfare state			2.28 (2.44)	1.65 (2.44)
Homogeneity*Social Class				
Homogeneity*Intermediate Class				9.29 (2.10)***
Homogeneity*Working Class				13.07 (2.00)***
Homogeneity*Income Inequality				6.32 (1.76)***
Homogeneity * Social Class * Income Inequality				
Homogeneity*Intermediate Class*Income Inequality				-8.18 (2.21)***
Homogeneity*Working Class *Income Inequality				-4.45 (2.03)*
Controls	Yes	Yes	Yes	Yes
BIC	193281.08	193222.90	193227.32	193214.52
Num. obs.	21110	21110	21110	21110
Num. groups	22	22	22	22
Var: Group (Intercept)	83.89	64.10	68.62	65.20
Var: Group Homogeneity	34.74	31.41	33.55	25.13
Var: Group Intermediate Class	3.73	3.26	3.57	3.27
Var: Group Working Class	15.59	14.86	15.36	13.73
Cov: Group (Intercept), Homogeneity	8.93	5.20	11.88	4.28
Cov: Group (Intercept), Intermediate Class	0.90	-6.36	-8.29	-6.32
Cov: Group (Intercept), Working Class	-10.12	-13.59	-16.22	-13.62
Cov: Group Homogeneity, Intermediate Class	-8.77	-9.55	-9.13	-7.35
Cov: Group Homogeneity, Working Class	-13.78	-14.48	-13.76	-9.51
Cov: Group Intermediate Class, Working Class	6.49	5.25	6.42	5.69
Var: Residual	511.89	510.41	510.31	508.97

Note: Models include sampling weights and individual level controls centered within cluster (group mean). Standard errors in parentheses. \*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ; + $p < 0.1$

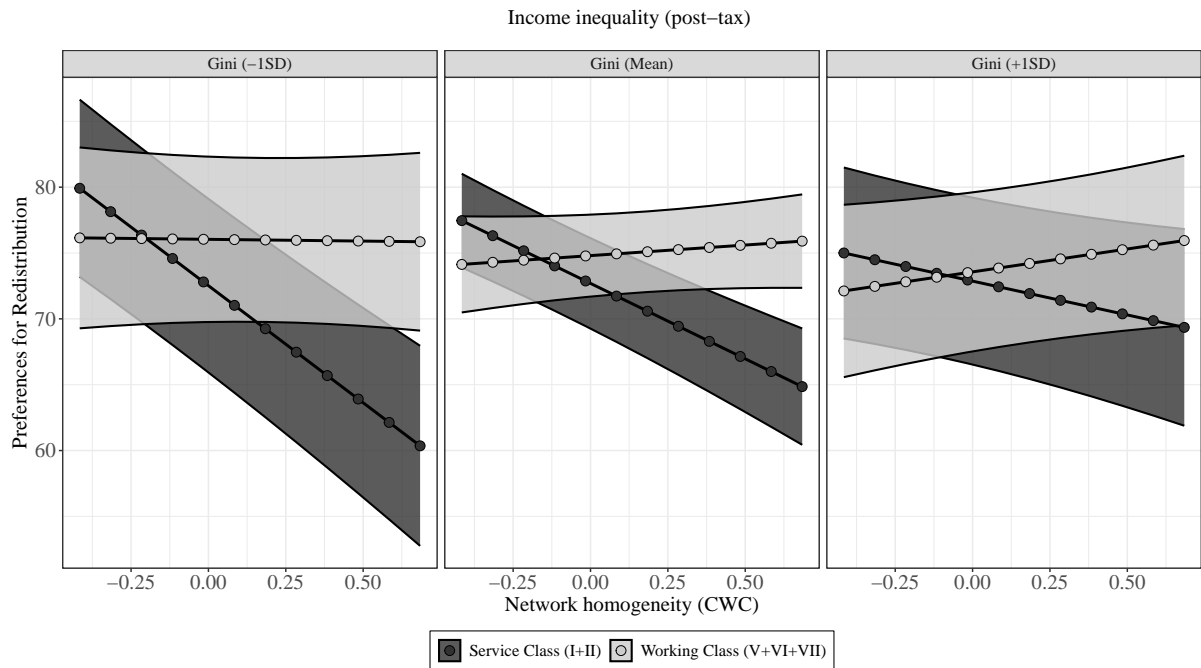


Figure 1: Three-way interaction effects for Redistributive Preferences, Network segregation, Social class and Income Inequality

## 1.2 Income Inequality Ratios (OECD)

Table 2: Multilevel models for Income Inequality, Network segregation and Redistributive Preferences

	Model 1	Model 2	Model 3	Model 4
Class-based network homogeneity (CWC)	-0.46 (1.53)	-0.56 (1.46)	-0.57 (1.50)	-8.14 (1.77)***
Social Class (Ref.= Service Class)				
Intermediate Class	1.66 (0.59)**	1.70 (0.57)**	1.69 (0.58)**	2.53 (0.60)***
Working Class	3.45 (0.98)***	3.47 (0.96)***	3.48 (0.97)***	3.58 (0.93)***
Macro-level factors				
Income inequality (Ratio 90/10)	-0.20 (1.62)	-2.64 (1.40)+	-2.05 (1.84)	-1.34 (1.94)
GDP/capita		-7.10 (1.56)***	-6.72 (1.63)***	-7.20 (1.58)***
Size of the welfare state			1.07 (1.91)	1.00 (1.85)
Homogeneity*Social Class				
Homogeneity*Intermediate Class				9.33 (2.11)***
Homogeneity*Working Class				13.32 (2.00)***
Homogeneity*Income Inequality				5.31 (1.73)**
Homogeneity * Social Class * Income Inequality				
Homogeneity*Intermediate Class*Income Inequality				-8.52 (2.31)***
Homogeneity*Working Class *Income Inequality				-2.36 (2.05)
Controls	Yes	Yes	Yes	Yes
BIC	193281.96	193221.91	193227.03	193215.90
Num. obs.	21110	21110	21110	21110
Num. groups	22	22	22	22
Var: Group (Intercept)	91.09	59.03	63.42	62.46
Var: Group Homogeneity	35.35	31.21	33.53	24.85
Var: Group Intermediate Class	3.71	3.22	3.58	3.70
Var: Group Working Class	15.68	14.83	15.32	13.28
Cov: Group (Intercept), Homogeneity	15.99	5.03	9.72	3.62
Cov: Group (Intercept), Intermediate Class	-0.93	-5.13	-6.62	-6.20
Cov: Group (Intercept), Working Class	-13.44	-13.44	-15.46	-13.78
Cov: Group Homogeneity, Intermediate Class	-8.76	-9.68	-9.14	-9.07
Cov: Group Homogeneity, Working Class	-13.97	-14.55	-13.81	-10.80
Cov: Group Intermediate Class, Working Class	6.47	5.19	6.42	4.90
Var: Residual	511.88	510.43	510.32	509.03

Note: Models include sampling weights and individual level controls centered within cluster (group mean). Standard errors in parentheses. \*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ; + $p < 0.1$

Table 3: Multilevel models for Income Inequality, Network segregation and Redistributive Preferences

	Model 1	Model 2	Model 3	Model 4
Class-based network homogeneity (CWC)	-0.47 (1.52)	-0.56 (1.46)	-0.60 (1.49)	-8.20 (1.77)***
Social Class (Ref.= Service Class)				
Intermediate Class	1.66 (0.59)**	1.70 (0.57)**	1.68 (0.57)**	2.54 (0.60)***
Working Class	3.45 (0.97)***	3.47 (0.96)***	3.47 (0.97)***	3.57 (0.94)***
Macro-level factors				
Income inequality (Ratio 90/50)	0.55 (1.59)	-2.59 (1.48)+	-1.79 (1.99)	-1.51 (2.07)
GDP/capita		-7.41 (1.67)***	-6.98 (1.73)***	-7.40 (1.69)***
Size of the welfare state			1.37 (1.97)	0.96 (1.91)
Homogeneity*Social Class				
Homogeneity*Intermediate Class				9.64 (2.11)***
Homogeneity*Working Class				13.37 (2.00)***
Homogeneity*Income Inequality				5.02 (1.73)**
Homogeneity * Social Class * Income Inequality				
Homogeneity*Intermediate Class*Income Inequality				-7.35 (2.29)**
Homogeneity*Working Class *Income Inequality				-2.49 (2.05)
Controls	Yes	Yes	Yes	Yes
BIC	193281.89	193222.17	193227.33	193219.98
Num. obs.	21110	21110	21110	21110
Num. groups	22	22	22	22
Var: Group (Intercept)	88.66	59.17	64.23	62.48
Var: Group Homogeneity	35.03	31.15	33.09	24.82
Var: Group Intermediate Class	3.70	3.24	3.37	3.81
Var: Group Working Class	15.65	14.86	15.32	13.89
Cov: Group (Intercept), Homogeneity	13.56	3.96	9.55	3.32
Cov: Group (Intercept), Intermediate Class	-0.50	-5.04	-6.95	-6.00
Cov: Group (Intercept), Working Class	-12.34	-12.62	-15.16	-13.33
Cov: Group Homogeneity, Intermediate Class	-8.76	-9.65	-9.33	-9.24
Cov: Group Homogeneity, Working Class	-13.87	-14.56	-13.71	-11.47
Cov: Group Intermediate Class, Working Class	6.47	5.21	6.47	5.18
Var: Residual	511.89	510.42	510.37	509.11

Note: Models include sampling weights and individual level controls centered within cluster (group mean). Standard errors in parentheses. \*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ; + $p < 0.1$

## 1.3 Social distance (OECD)

### 1.3.1 Social Distance by Social Class

Table 4: Multilevel models for Social distance and Redistributive Preferences

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Social distance	-0.22 (0.15)	-0.25 <sup>+</sup> (0.15)	0.14 (0.16)	0.13 (0.16)	0.13 (0.16)	-0.53* (0.23)
Network size		-0.51*** (0.07)	-0.40*** (0.07)	-0.34*** (0.07)	-0.33*** (0.07)	-0.31*** (0.07)
Social Trust		-1.13*** (0.21)	-0.81*** (0.21)	-0.53* (0.21)	-0.48* (0.21)	-0.48* (0.21)
Social Class (Ref.= Service Class)						
Intermediate Class			2.77*** (0.40)	1.74*** (0.41)	1.60*** (0.41)	-2.61 (2.34)
Working Class			5.31*** (0.41)	3.60*** (0.45)	3.32*** (0.45)	-5.86** (2.07)
Year of Education				-0.20*** (0.05)	-0.17*** (0.05)	-0.19*** (0.05)
Household Income (Ref.= Tertile I)						
Income (T2)				-2.53*** (0.45)	-2.40*** (0.45)	-2.42*** (0.45)
Income (T3)				-5.78*** (0.47)	-5.49*** (0.47)	-5.54*** (0.47)
Income (No information)				-3.30*** (0.48)	-3.18*** (0.48)	-3.22*** (0.48)
Not in paid work (Ref. = In paid work)				0.41 (0.43)	0.31 (0.43)	0.31 (0.43)
Union Membership (Ref. = Not Unionized)				3.87*** (0.37)	3.87*** (0.37)	3.81*** (0.37)
Partner's Social Class (Ref.= Service Class)						
Intermediate Class (Partner)					1.58** (0.55)	1.59** (0.54)
Working Class (Partner)					3.44*** (0.58)	3.44*** (0.58)
No information (Not available, No partner)					1.46** (0.46)	1.49** (0.46)
Social distance x Social Class						
Distance*Intermediate Class						0.72 <sup>+</sup> (0.39)
Distance*Working Class						1.67*** (0.37)
Controls	Yes	Yes	Yes	Yes	Yes	Yes
BIC	193659.44	193593.92	193443.16	193206.47	193197.27	193196.99
Num. obs.	21110	21110	21110	21110	21110	21110
Num. groups	22	22	22	22	22	22
Var: Country (Intercept)	89.06	88.76	82.16	87.14	86.11	85.74
Var: Residual	527.70	525.49	521.34	514.08	513.24	512.79

Note: Models include sampling weights. Gender, age, marital status and religion are included as controls. Standard errors in parentheses. \*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ; <sup>+</sup> $p < 0.1$

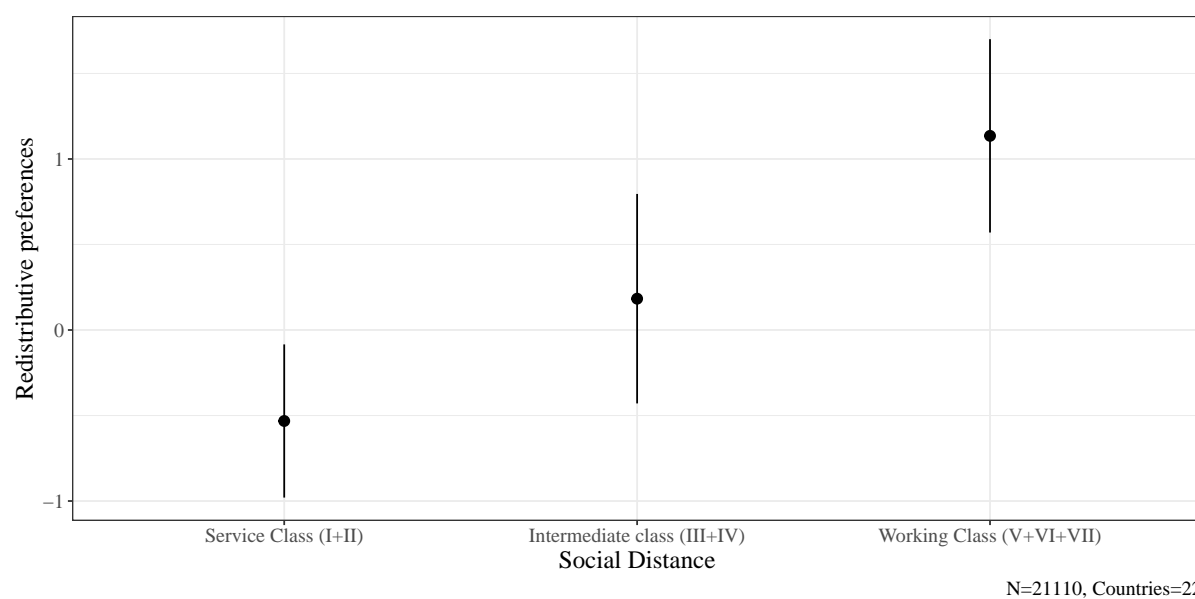


Figure 2: Average Marginal Effects of Social Distance conditioned by Social Class on Redistributive Preferences

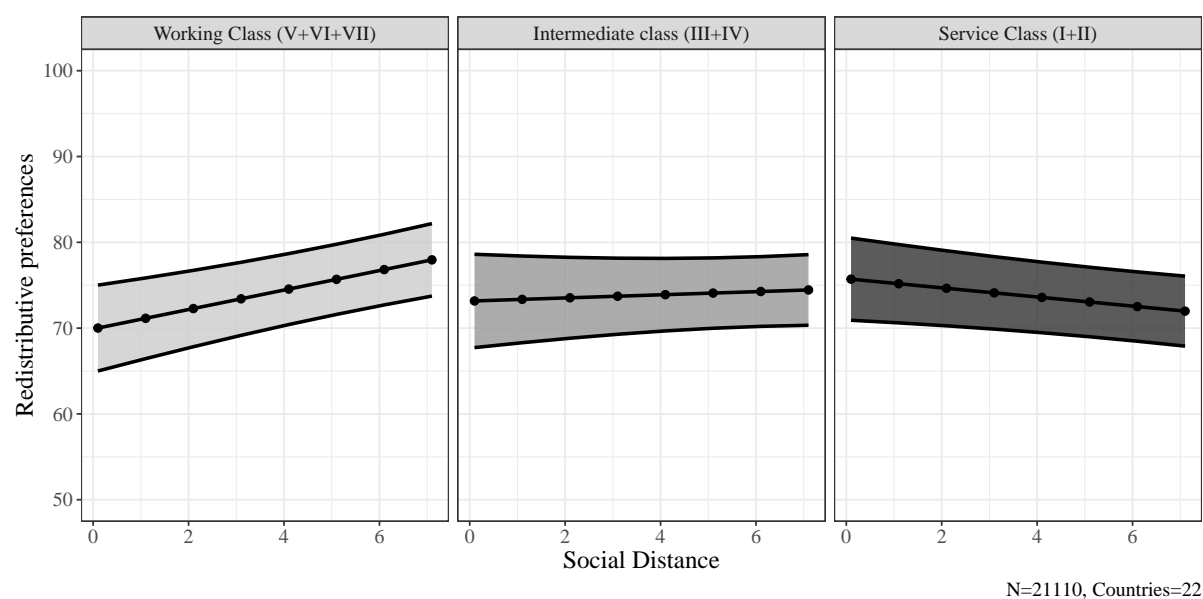


Figure 3: Linear Predictions for Social distance on Redistributive Preferences by Social Class

Table 5: Multilevel models for Income Inequality, Network segregation and Redistributive Preferences

	Model 1	Model 2	Model 3	Model 4
Social distance (CWC)	0.07 (0.28)	0.06 (0.28)	0.06 (0.28)	-0.46 (0.31)
Social Class (Ref.= Service Class)				
Intermediate Class	1.53 (0.53)**	1.57 (0.52)**	1.56 (0.52)**	1.41 (0.48)**
Working Class	3.28 (0.88)***	3.31 (0.87)***	3.29 (0.87)***	3.59 (0.87)***
Macro-level factors				
Income inequality (Gini index)	0.36 (1.40)	-1.90 (1.53)	0.17 (2.37)	2.77 (2.53)
GDP/capita		-4.27 (1.61)**	-4.25 (1.60)**	-4.71 (1.56)**
Size of the welfare state			3.19 (2.16)	4.11 (2.10) <sup>+</sup>
Distance x Social Class				
Distance*Intermediate Class				0.59 (0.39)
Distance*Working Class				1.37 (0.38)***
Distance*Income Inequality				0.33 (0.29)
Distance * Social Class x Income Inequality				
Distance*Intermediate Class*Income Inequality				0.57 (0.38)
Distance*Working Class*Income Inequality				-0.34 (0.37)
Controls	Yes	Yes	Yes	Yes
BIC	193278.94	193223.93	193228.94	193277.75
Num. obs.	21110	21110	21110	21110
Num. groups	22	22	22	22
Var: Group (Intercept)	83.68	63.06	68.64	65.81
Var: Group Homogeneity	1.20	1.19	1.19	0.87
Var: Group Intermediate Class	2.33	2.18	2.18	1.20
Var: Group Working Class	12.61	12.03	12.16	11.83
Cov: Group (Intercept), Homogeneity	6.25	4.22	4.73	3.27
Cov: Group (Intercept), Intermediate Class	-0.06	-3.63	-6.46	-5.74
Cov: Group (Intercept), Working Class	-5.11	-8.76	-10.05	-9.89
Cov: Group Homogeneity, Intermediate Class	0.16	-0.01	-0.05	0.42
Cov: Group Homogeneity, Working Class	1.32	1.15	1.18	1.57
Cov: Group Intermediate Class, Working Class	4.28	4.04	3.97	2.91
Var: Residual	511.91	510.33	510.33	510.18

Note: Models include sampling weights and individual level controls centered within cluster (group mean). Standard errors in parentheses. \*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ; <sup>+</sup> $p < 0.1$

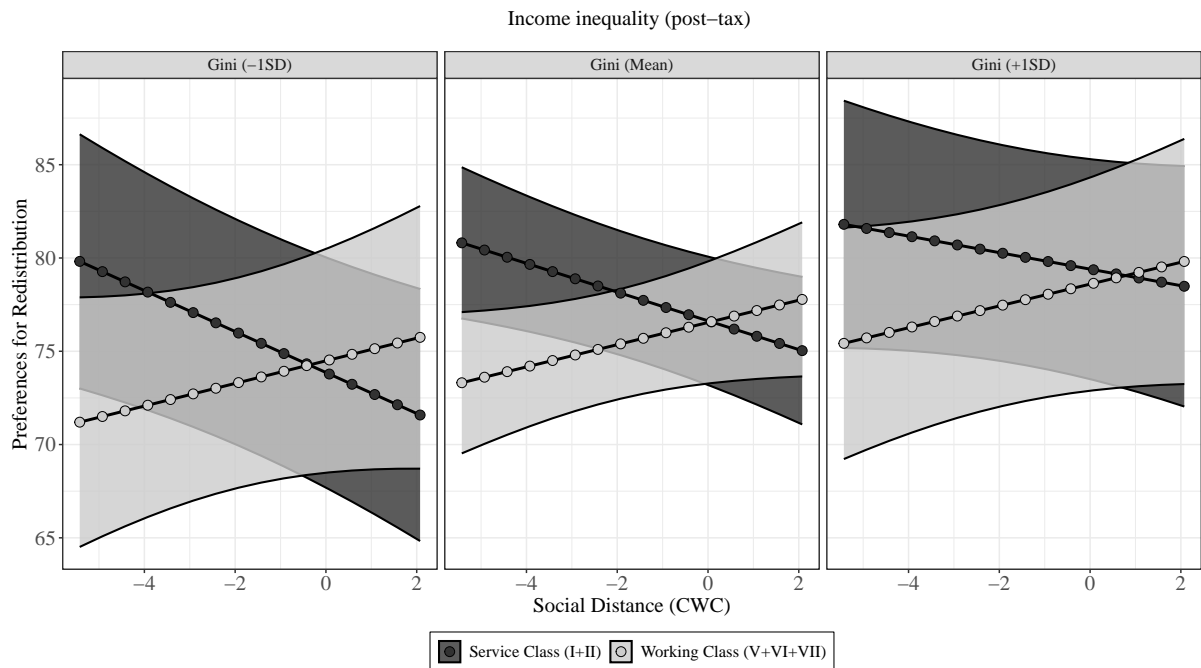


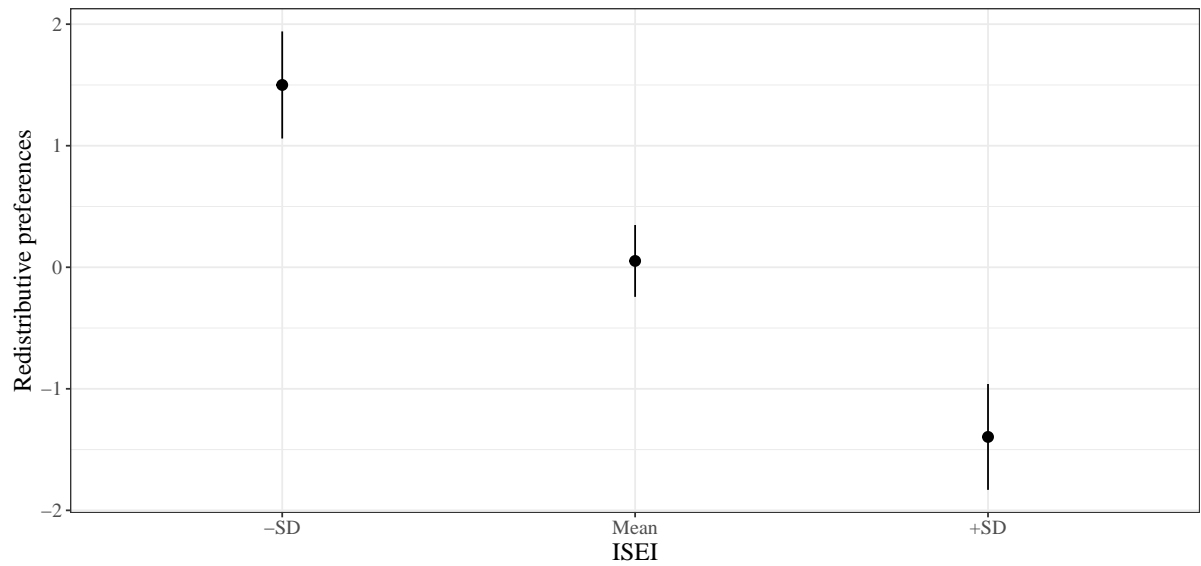
Figure 4: Three-way interaction effects for Redistributive Preferences, Social Distance, Social Class and Income Inequality

### 1.3.2 Social Distance by ISEI

Table 6: Multilevel models for Social Distance and Redistributive Preferences

	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6
Social Distance /10	-0.22 (0.15)	-0.25 <sup>+</sup> (0.15)	0.02 (0.15)	0.04 (0.15)	0.04 (0.15)	3.11*** (0.38)
Network size		-0.51*** (0.07)	-0.39*** (0.07)	-0.34*** (0.07)	-0.35*** (0.07)	-0.29*** (0.07)
Social Trust		-1.13*** (0.21)	-0.67** (0.21)	-0.48* (0.21)	-0.43* (0.21)	-0.38 <sup>+</sup> (0.21)
ISEI/10			-1.14*** (0.08)	-0.81*** (0.09)	-0.76*** (0.09)	2.62*** (0.39)
Year of Education				-0.14** (0.05)	-0.12* (0.05)	-0.11* (0.05)
Income (T2)				-2.39*** (0.45)	-2.29*** (0.45)	-2.26*** (0.45)
Income (T3)				-5.46*** (0.47)	-5.24*** (0.47)	-5.06*** (0.47)
Income (No information)				-3.16*** (0.48)	-3.09*** (0.48)	-3.03*** (0.48)
Not in paid work (Ref. = In paid work)				0.42 (0.43)	0.48 (0.43)	0.46 (0.43)
Union Membership (Ref. = Not Unionized)				3.97*** (0.37)	3.99*** (0.37)	3.90*** (0.37)
ISEI/10 (Partner)					-0.37*** (0.08)	-0.35*** (0.08)
Social Distance*ISEI						-0.67*** (0.08)
Controls	Yes	Yes	Yes	Yes	Yes	Yes
BIC	193650.18	193584.65	193381.93	193172.46	193164.17	193100.44
Num. obs.	21109	21109	21109	21109	21109	21109
Num. groups	22	22	22	22	22	22
Var: Country (Intercept)	89.05	88.75	82.05	87.47	86.60	84.97
Var: Residual	527.71	525.51	520.22	513.63	513.13	511.30

Note: Models include sampling weights. Gender, age, marital status and religion are included as controls. Standard errors in parentheses. \*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ; <sup>+</sup> $p < 0.1$



N=21109, Countries=22

Figure 5: Average Marginal Effects of Social Distance conditioned by ISEI on Redistributive Preferences

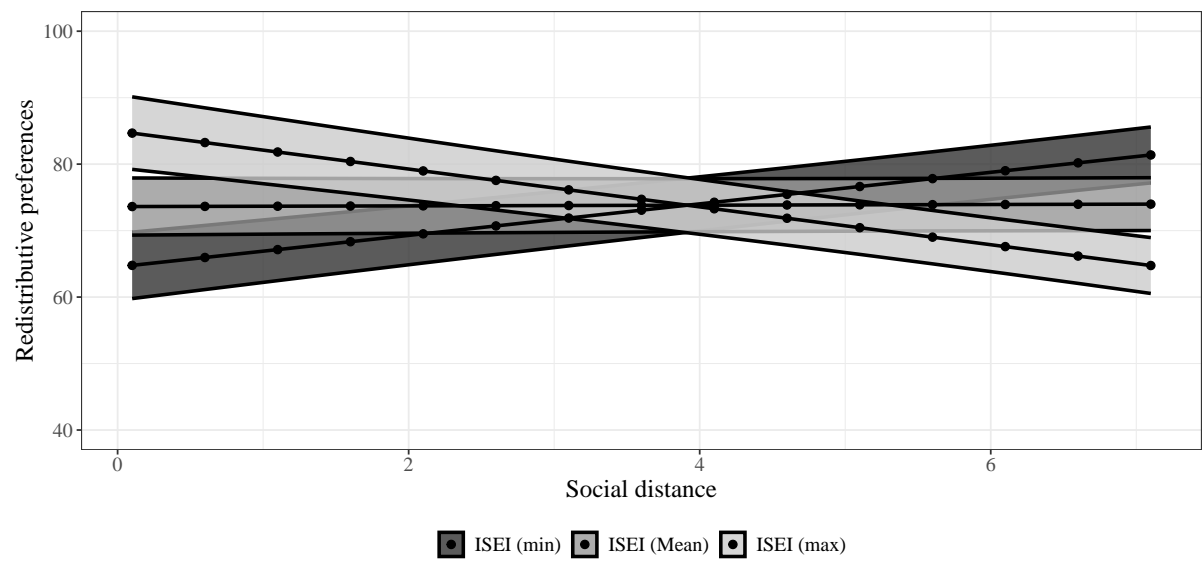


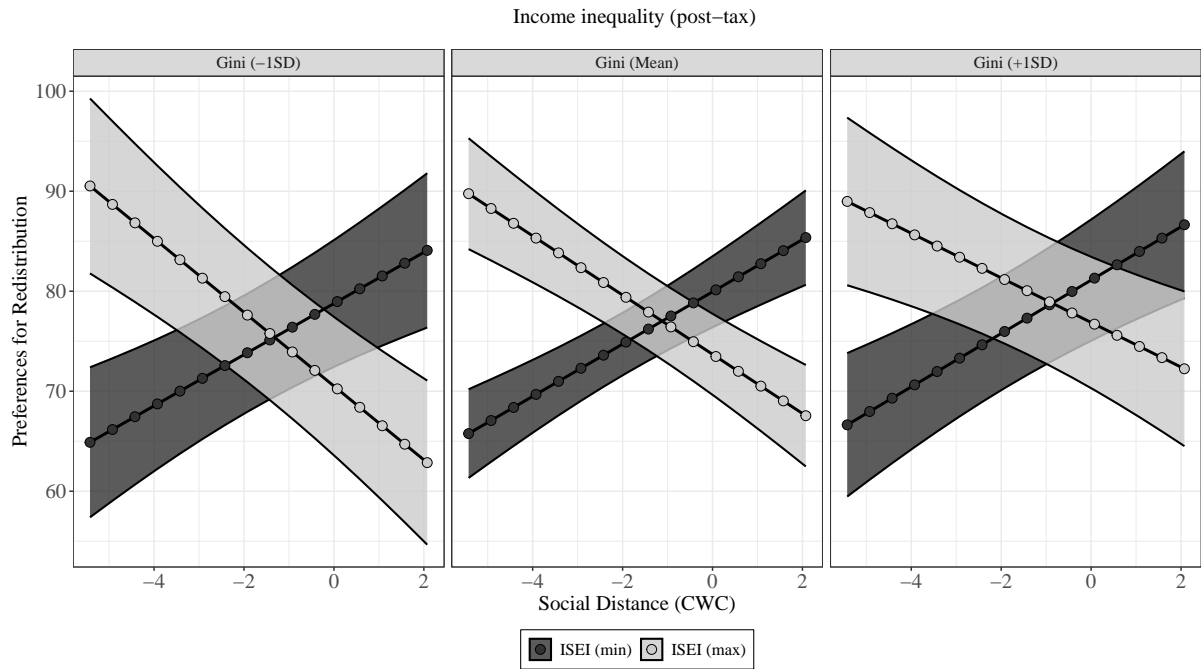
Figure 6: Linear Predictions for Social Distance on Redistributive Preferences by ISEI



Table 7: Multilevel models for Income Inequality, Network segregation and Redistributive Preferences

	Model 1	Model 2	Model 3	Model 4
Social Distance (CWC)	0.01 (0.27)	-0.01 (0.27)	-0.01 (0.27)	-0.01 (0.28)
ISEI	-0.78 (0.19)***	-0.79 (0.19)***	-0.79 (0.19)***	-1.16 (0.19)***
Income inequality (Gini index)	0.13 (1.44)	-1.85 (1.58)	0.37 (2.45)	2.14 (2.58)
GDP/capita		-4.17 (1.62)**	-3.74 (1.62)*	-3.38 (1.60)*
Size of the welfare state			2.72 (2.17)	2.74 (2.14)
Distance*ISEI				-0.57 (0.08)***
Distance*Income Inequality				0.37 (0.27)
ISEI*Income Inequality				0.21 (0.18)
Distance*Working Class*Income Inequality				0.07 (0.08)
Controls	Yes	Yes	Yes	Yes
BIC	193190.84	193135.04	193140.20	193132.93
Num. obs.	21109	21109	21109	21109
Num. groups	22	22	22	22
Var: Group (Intercept)	84.82	58.64	61.94	61.56
Var: Group Soc. Distance	1.04	1.04	1.04	1.22
Var: Group ISEI	0.59	0.58	0.58	0.58
Cov: Group (Intercept), Soc. Distance	7.21	5.01	5.43	5.86
Cov: Group (Intercept), ISEI	0.20	0.68	1.06	0.81
Cov: Group Soc. Distance, ISEI	-0.06	-0.04	-0.04	-0.13
Var: Residual	511.45	509.83	509.83	508.54

Note: Models include sampling weights and individual level controls centered within cluster (group mean). Standard errors in parentheses. \*\*\* $p < 0.001$ ; \*\* $p < 0.01$ ; \* $p < 0.05$ ; + $p < 0.1$



N=21109, Countries=22

Figure 7: Three-way interaction effects for Redistributive Preferences, Social Distance, ISEI and Income Inequality