

# The Protestant Ethic Re-Examined: Calvinism and Industrialization

## Online Appendix

August 8, 2018

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Sharp RDD				
	Model 1	Model 2	Model 3	Model 4
Coefficient	54	53	50	47
(Std. Error)	(25)	(24)	(24)	(19)
P-value	0.029**	0.030**	0.038**	0.014**
Vaud Obs.	99	100	101	110
Fribourg Obs.	117	119	122	140
Bandwidth [km]	4.6	4.7	4.8	5.7
Controls	<i>No</i>	Elev., Rough.,	Elev., Rough., Lat., Long.	Elev., Rough., Lat., Long., 1860. Pop.
Sample Frame	Pop. < 1k	Pop. < 1k	Pop. < 1k	Pop. < 1k

Table A1: Sharp RDD results, for various sets of controls: elevation, roughness, and initial population. Local-linear polynomial with CTT bandwidth. Coefficient is estimated effect on population growth 1860-1910 of being located on the Fribourg side of the border.

Sharp RDD: Percent Growth Rate as DV				
	Model 1	Model 2	Model 3	Model 4
Coefficient	0.37	0.37	0.36	0.35
(Std. Error)	(0.12)	(0.12)	(0.12)	(0.12)
P-value	0.0018***	0.0015***	0.0025***	0.0026***
Vaud Obs.	106	107	109	110
Fribourg Obs.	135	137	138	140
Bandwidth [km]	5.3	5.4	5.5	5.8
Controls	<i>No</i>	Elev., Rough.,	Elev., Rough., Lat., Long.	Elev., Rough., Lat., Long., 1860. Pop.
Sample Frame	Pop. < 1k	Pop. < 1k	Pop. < 1k	Pop. < 1k

Table A2: Sharp RDD results, for various sets of controls: elevation, roughness, and initial population. Local-linear polynomial with CTT bandwidth. Coefficient is estimated effect on the percentage population growth rate from 1860-1910 of being located on the Fribourg side of the border.

Agricultural Employment Rates, Fribourg vs. Vaud	
	1870
Vaud Coefficient	-5.4
(Std. Error)	(6.4)
P-value	0.41
Intercept	59.6
(Std. Error)	(4.7)
Districts (N)	16

Table A3: Agricultural employment rates (percent) for Fribourg and Vaud districts containing villages included in RDD samples. Linear regression. Data from Van der Walle (1980).

Post-Primary Education Rates, Fribourg vs. Vaud			
	1870	1888	1910
Vaud Coefficient	-0.15	0.06	2.42
(Std. Error)	(2.56)	(2.57)	(3.55)
P-value	0.95	0.98	0.51
Intercept	10.54	9.18	16.15
(Std. Error)	(1.88)	(1.88)	(2.56)
Districts (N)	16	16	16

Table A4: Post-primary education rates (percent) for Fribourg and Vaud districts containing villages included in RDD samples. Population-weighted linear regression. Data from Van der Walle (1980).

Robust linear regression				
	<i>Dependent variable: Growth</i>			
	Model 1	Model 2	Model 3	Model 4
Pct. Catholic	28 (16)*	38 (15)**	21 (16)	35 (16)**
Elevation		-0.04 (0.05)		-0.04 (0.05)
Roughness		-0.04 (0.04)		-0.04 (0.04)
Longitude		143 (35)***		123 37
Latitude		-123 (65)*		-114 (68)*
Pop. 1860		0.22 (0.02)***		0.25 (0.01)***
Intercept	20 (15)	4726 (2921)	30 (15)**	4445 (3068)
Sample Frame	Pop. < 1k, Fribourg	Pop. < 1k, Fribourg	Pop. < 2k, Fribourg	Pop. < 2k, Fribourg
Observations	263	263	272	272
<i>Note:</i>	*p<0.1; **p<0.05; ***p<0.01			

Table A5: Regression results for Fribourg, showing correlation between proportion Catholic and growth.

Fertility Index, Fribourg vs. Vaud			
	1870	1888	1910
Vaud Coefficient	0.003	-0.041	-0.108
(Std. Error)	(0.024)	(0.026)	(0.027)
P-value	0.899	0.142	0.001**
Intercept	0.329	0.373	0.362
(Std. Error)	(0.017)	(0.019)	(0.020)
Districts (N)	16	16	16

Table A6: Fertility index (Coale's index  $I_f$ ) for Fribourg and Vaud districts containing villages included in RDD samples. Population-weighted linear regression. Data from Van der Walle (1980).

Infant mortality rate (per 1000), Fribourg vs. Vaud			
	1870	1888	1910
Vaud Coefficient	-30.4	-19.5	-44.7
(Std. Error)	(11.8)	(7.5)	(12.0)
P-value	0.022*	0.021*	0.002**
Intercept	270	233	186
(Std. Error)	(9)	(5)	(9)
Districts (N)	16	16	16

Table A7: Infant mortality rate (per 1000) for Fribourg and Vaud districts containing villages included in RDD samples. Population-weighted linear regression. Data from Van der Walle (1980).

Total mortality rate (per 1000), Fribourg vs. Vaud	
	1910
Vaud Coefficient	-3.20
(Std. Error)	(0.87)
P-value	0.002**
Intercept	20.4
(Std. Error)	(0.64)
Districts (N)	16

Table A8: Total mortality rate (per 1000) for Fribourg and Vaud districts containing villages included in RDD samples. Population-weighted linear regression. Data from Van der Walle (1980).