

Appendix 1: Random slopes of “female” across countries

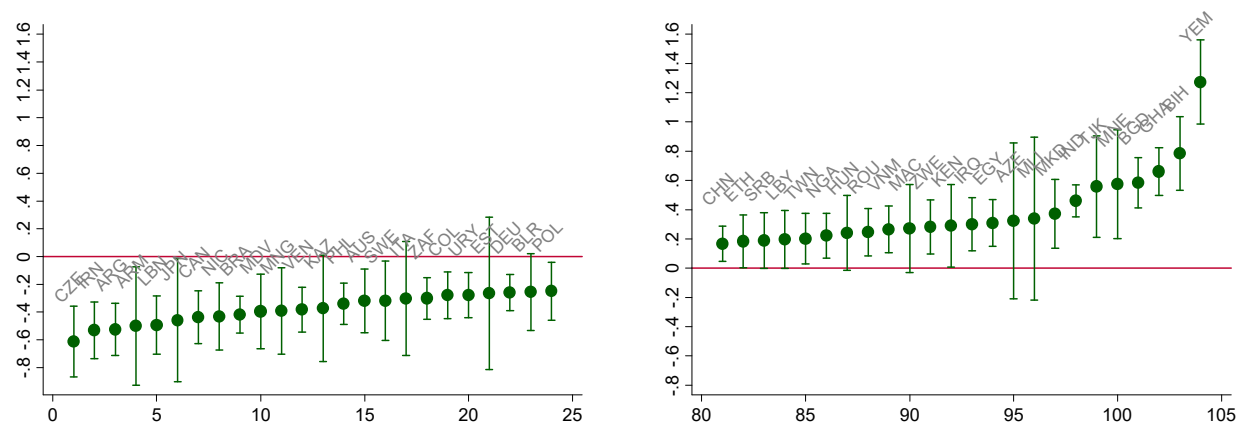
Table A1: Cultural spheres and socialism as determinants of the risk of low education. Two-level multilevel logistic regression models

	(1)
female	0.307***
age in years	0.0500***
satisf. household finances, 1=yes, 0=no	-0.0332***
family could save money last year, 1=yes, 0=no	-0.319***
respondent is chief earner, 1=yes, 0=no	-0.0470*
female X chief earner	-0.160***
respondent is married, 1=yes, 0=no	0.104***
lower class	ref.
upper class	-1.435***
upper middle class	-1.882***
lower middle class	-1.223***
Working class	-0.607***
relig.: no religion	ref.
relig.: Christian	0.177***
relig.: Muslim	0.613***
relig.: Other	0.301***
men more right to job when jobs scarce	0.517***
Constant	-3.051***
/	
var(female[_ISO3C_])	0.128***
var(_cons[_ISO3C_])	1.730***
Observations	209913

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Source: WVS 1995-22, own computation.

Figure A1: empirical Bayes estimates for random slope of “female”, two-level model A1 (appendix), random-slopes below and above the average



Source: WVS 1995-22, own computation.

Appendix 2: Measurements

Measurement of education (Feldmann 2020).

Elementary education

Dummy variable that equals 1 if respondent's highest educational level attained was "Completed (compulsory) elementary education"

Middle education

Dummy variable that equals 1 if respondent's highest educational level attained was either "Incomplete secondary school: technical/vocational type/ (Compulsory) elementary education and basic vocational qualification", "Complete secondary school: technical/vocational type/Secondary, intermediate vocational qualification", "Incomplete secondary: university-preparatory type/Secondary, intermediate general qualification" or "Complete secondary: university preparatory type/Full secondary, maturity level certificate"

Higher education

Dummy variable that equals 1 if respondent's highest educational level attained was either "Some university without degree/Higher education – lower level tertiary certificate" or "University with degree/Higher education – upper-level tertiary certificate"

Secular and emancipated values according to Welzel (2013)

Secular

Defiance (high values = high defiance)

One of my main goals in life has been to make my parents proud. (-)

Greater respect for authority (-)

How proud are you to be [Nationality] (-)

Disbelief (high values = high disbelief)

how important [religion] is in your life (-)

how often do you attend religious services these days? (-)

would you say you are: A religious person; Not a religious person; An atheist

Relativism (high values = high relativism)

Indifference about: Avoiding a fare on public transport

Indifference about: Cheating on taxes if you have a chance

Indifference about: Someone accepting a bribe in the course of their duties

Scepticism (high values = high distrust)

how much confidence in...

The armed forces (-)

The police (-)

The courts (-)

Emancipative

Autonomy (high values = high autonomy)

qualities that children can be encouraged to learn at home ...

Independence

Imagination

Obedience

Equality (high values = high equality)

When jobs are scarce, men should have more right to a job than women (-)

A university education is more important for a boy than for a girl (-)

On the whole, men make better political leaders than women do (-)

Choice (high values = high choice)

it can be justified on a 10 point scale

Homosexuality

Abortion

Divorce

Voice (high values = high voice)

Priority out of 12 Items:

Giving people more say in important government decisions

Protecting freedom of speech

Seeing that people have more say about how things are done at their jobs and in their communities

Appendix 3: composition of latent classes by country-years

Class 1 “religious, non-emancipated, mostly Muslim”

This Class 1 is highly religious and also highly non-emancipated. Most countries are Muslim. Interestingly, there is some legitimacy of state institutions. In particular, his countries have on average very low scores in the equality dimension.

ARM2011 ARM2021 BFA2007 BGD2002 BGD2018 DZA2002 EGY2001 ETH2020
GEO1996 GEO2009 GEO2014 GHA2007 GHA2012 IDN2001 IDN2006 IDN2018 IND1995
IND2001 IND2012 IRN2007 IRN2020 IRQ2013 IRQ2018 JOR2001 JOR2007 JOR2014
JOR2018 KGZ2011 KGZ2020 LBY2014 LBY2022 MAR2001 MAR2007 MAR2011
MDV2021 MLI2007 MMR2020 NGA1995 NGA2000 NGA2012 NGA2018 PAK2001
PAK2012 PAK2018 PSE2013 QAT2010 RWA2007 TUN2013 TUN2019 TUR2007 TUR2011
TUR2018 TZA2001 UGA2001 YEM2014 ZWE2001 ZWE2012 ZWE2020

Class 2 “secular, low emancipation, legitimate state, former socialist, Central East Asia”

this class 2 is rather secular, state institutions are comparatively legitimate, but emancipation is low, except for the high autonomy.

AZE2011 CHN2001 CHN2007 CHN2013 CHN2018 UZB2011 VNM2001 VNM2006

Class 3 “religious, non-emancipated, low state legitimacy”

Class 3 is comparatively religious and state institutions have low legitimacy. Moreover choice and equality tend to be low, so that these countries are comparatively non-emancipated.

AZE1997 DZA2014 IND2006 LBN2018 MYS2006 MYS2012 MYS2018 PHL1996 PHL2001
PHL2012 PHL2019 RWA2012 TJK2020 ZAF2013

Class 4 “WEIRD, slightly”

secular, slightly WEIRD, East Asian, Baltic

In this Class 4, disbelief is very high, and also choice and equality, whereas voice is high and this cluster also tends towards autonomy. It is not perfectly WEIRD, but tends towards this direction. These countries East Asian, but also some former socialist European contries

CZE2022 EST1996 EST2011 HKG2014 HKG2018 JPN1995 JPN2000 JPN2005 JPN2010
JPN2019 KOR1996 KOR2001 KOR2005 KOR2010 KOR2018 LVA1996 MAC2019
TWN2006 TWN2012 TWN2019

Class 5 “WEIRD European”

equal., WEIRD European

Class 5 shows high defiance, very high disbelief and rather low scepticism. All emancipation dimensions are very high, namely choice, equality, voice and autonomy. This is an ideal -type European WEIRD cluster.

AND2005 AND2018 AUS2018 CAN2020 CHE2007 DEU1997 DEU2006 DEU2013
DEU2018 FIN1996 FIN2005 GBR2022 NLD2006 NLD2012 NLD2022 NOR1996 NOR2007
NZL2011 NZL2020 SWE1996 SWE2006 SWE2011

Class 6 “secular-liberal, Anglo-Saxon and Catholic”

In Class 6, defiance and disbelief is very high whereas relativism and scepticism are on average. In addition, choice is high and autonomy is very. Again, this cluster tends towards WEIRDness.

ARG2006 ARG2013 ARG2017 AUS1995 AUS2005 AUS2012 CAN2000 CAN2006
CHL2012 CHL2018 CZE1998 ESP1995 ESP2000 ESP2007 ESP2011 FRA2006 GBR2005
HUN2009 NZL1998 NZL2004 SVN1995 SVN2005 SVN2011 URY1996 URY2006
URY2011 URY2022 USA1999 USA2006 USA2011 USA2017

Class 7 “religious, collec. America, Catholic and Africa”

Class 7 tends to low defiance and shows low disbelief, it is thus still comparatively religious and individual autonomy is low. These countries are basically Catholic, many of them are Latin American. At the same time, it is ambiguous with regard to emancipation, since autonomy is low, but voice is high, whereas equality tends to be high.

ARG1995 ARG1999 BOL2017 BRA1997 BRA2006 BRA2014 BRA2018 CHL1996
CHL2000 CHL2006 COL1998 COL2005 COL2012 COL2018 CYP2019 DOM1996 ECU2013
ECU2018 ETH2007 GTM2004 GTM2020 HTI2016 ITA2005 KEN2021 MEX1996 MEX2000
MEX2005 MEX2012 MEX2018 NIC2020 PER1996 PER2001 PER2012 PER2018 POL1997
POL2005 POL2012 PRI1995 PRI2001 PRI2018 ROU2012 SLV1999 TTO2006 TTO2010
USA1995 VEN1996 VEN2000 VEN2021 ZAF1996 ZAF2001 ZAF2006 ZMB2007

Class 8 “secular, low emancipation, illegitimate state, former socialist”

secular, -emanc., illegit. S.

Class 8 is secular and relativism is high, so that the legitimacy of state institutions is comparatively low. At the same time, also emancipation tends to be low, in particular in the voice dimension. Interestingly, most countries in this class are formally socialist European, Central Asian and East Asian countries.

ALB1998 ALB2002 ARM1997 BGR1997 BGR2006 BIH1998 BIH2001 BLR1996 BLR2011
CYP2006 CYP2011 GRC2017 HRV1996 HUN1998 KAZ2011 KAZ2018 KGZ2003
LBN2013 LTU1997 MAR2021 MDA1996 MDA2002 MDA2006 MKD1998 MKD2001
MNE1996 MNE2001 MNG2020 ROU1998 ROU2005 ROU2018 RUS1995 RUS2006
RUS2011 RUS2017 SGP2012 SGP2020 SRB1996 SRB2001 SRB2006 SRB2017 SVK1998
SVK2022 THA2007 THA2013 THA2018 TWN1998 UKR1996 UKR2006 UKR2011
UKR2020 VNM2020

Appendix 4: Model fit of LCA

Model	N	ll (model)	df	AIC	BIC
c7	257	1828.159	70	-3516.318	-3267.882
c8	257	1867.152	79	-3576.303	<u>-3295.926</u>
c9	257	1885.621	88	-3595.242	-3282.923
c10	257	1909.467	97	-3624.934	-3280.674
c11	257	1919.315	106	-3626.629	-3250.427

Note: BIC uses N = number of observations. See [R] BIC note.