Supplemental Material for:
How Robust are Country Rankings in Educational Mobility?

Contents

1   Descriptive statistics and coding

Table A1: Descriptive statistics on ESS data, unweighted.

Round		BE	CH	DE	DK	EE	ES	FI	FR	HU	IE	NL	NO	PL	SE	SI	UK
1	N	1899	2040	2919	1506	-	1729	2000	1503	1685	2046	2364	2036	2110	1999	1519	2052
	Response rate	59.2	33.5	55.7	67.6		53.2	73.2	43.1	69.9	64.5	67.9	65.0	73.2	69.5	70.5	55.5
	Average Age	44.8	47.6	47.3	46.4		48.6	45.6	47.3	46.1	45.7	48.1	45.8	42.9	46.3	44.4	48.6
2	N	1778	2141	2870	1487	1989	1663	2022	1806	1498	2286	1881	1760	1716	1948	1442	1897
	Response rate	61.2	48.6	51.0	64.2	79.1	54.9	70.7	43.6	65.9	62.5	64.3	66.2	73.7	65.4	70.2	50.6
	Average Age	45.2	48.1	46.8	46.9	47.2	45.1	47.3	48.9	46.6	48.0	49.4	45.5	42.1	46.9	45.4	47.9
3	N	1798	1804	2916	1505	1517	1876	1896	1986	1518	1800	1889	1750	1721	1927	1476	2394
	Response rate	61.0	51.5	54.5	50.8	65.0	65.9	64.4	46.0	66.1	56.8	59.8	65.5	70.2	65.9	65.1	54.6
	Average Age	46.1	49.9	48.0	49.6	47.5	45.9	48.4	48.1	51.1	46.3	48.9	45.6	43.7	46.9	46.4	49.5
4	N	1760	1819	2751	1610	1661	2576	2195	2073	1544	1764	1778	1549	1619	1830	1286	2352
	Response rate	58.9	49.9	48.0	53.9	57.4	66.8	68.4	49.4	61.3	51.6	49.8	60.4	71.2	62.2	59.1	55.8
	Average Age	46.5	48.6	49.0	49.3	47.8	46.8	48.0	48.7	47.8	47.6	49.3	45.8	44.6	47.6	46.6	49.1
5	N	1704	1506	3031	1576	1793	1885	1878	1728	1561	2576	1829	1548	1751	1497	1403	2422
	Response rate	53.4	53.3	30.5	55.4	56.2	68.5	59.5	47.1	49.2	65.2	60.0	58.0	70.3	51.0	64.4	56.3
	Average Age	46.8	47.8	47.6	48.5	48.7	45.9	48.8	49.4	47.6	46.1	50.4	46.4	44.4	48.6	47.4	49.9
6	N	1869	1493	2958	1650	2380	1889	2197	1968	2014	2628	1845	1624	1898	1847	1257	2286
	Response rate	58.7	51.7	33.8	49.1	67.8	70.3	67.3	52.1	64.5	67.9	55.1	54.9	74.9	52.4	57.7	53.1
	Average Age	47.3	47.4	48.7	48.7	49.4	47.6	50.0	51.8	47.1	47.3	51.2	46.0	46.1	47.8	48.3	51.8
7	N	1769	1532	3045	1502	2051	1925	2087	1917	1698	2390	1919	1436	1615	1791	1224	2264
	Response rate	57.0	52.7	31.4	51.9	59.9	67.9	62.7	50.9	52.7	60.7	58.6	53.9	65.8	50.1	52.3	43.6
	Average Age	47.0	47.4	50.0	48.1	50.3	48.5	51.3	49.9	49.9	49.4	50.7	46.8	47.3	49.7	49.6	52.2
8	N	1766	1525	2852	-	2019	1958	1925	2070	1614	2757	1681	1545	1694	1551	1307	1959
	Response rate	56.8	52.2	30.6		68.4	67.7	57.7	52.4	42.7	64.5	49.7	52.8	69.6	43.0	55.9	42.8
	Average Age	47.0	47.8	48.6		49.6	49.6	50.0	52.4	50.8	50.2	51.2	47.0	47.2	51.6	49.1	51.4
9	N	1767	1542	2358	1572	1904	1668	1755	2010	1661	2216	1673	1406	1500	1539	1318	2204
	Response rate	57.6	51.8	27.6	48.8	62.7	53.8	51.8	48.1	40.7	62.0	49.6	43.3	60.4	39.0	64.1	41.0
	Average Age	47.9	47.5	49.6	49.8	50.7	48.5	51.0	52.4	51.0	52.2	48.6	47.1	47.6	52.5	49.4	52.4
10	N	1341	1523	8725	-	1542	2283	1577	1977	1849	1770	1470	1411	2065	2287	1252	1149
	Response rate	39.19	49.5	37.0		47.2	35.5	41.1	39.6	40.4	36.31	35.7	37.9	39.2	37.9	54.7	20.88
	Average Age	49.0	49.6	50.3		51.6	49.4	52.6	49.5	50.5	53.5	48.6	47.3	49.0	52.1	49.4	55.7
All	Average N	1745	1693	3443	1551	1873	1945	1953	1904	1664	2223	1833	1607	1769	1822	1348	2098
	Average resp. rate	56.3	49.5	40.0	55.2	62.6	60.5	61.7	47.2	55.3	59.2	55.1	55.8	66.9	53.6	61.4	47.4
	Total N	17451	16925	34425	12408	16856	19452	19532	19038	16642	22233	18329	16065	17689	18216	13484	20979

Table A2: Coding schemes for categorical aggregations.

edulvl3	edulvla	edulvlb
Primary	1	113, 129
Secondary	2, 3, 4	212, 213, 221, 222, 223, 229, 311, 312, 313, 321, 322, 323, 412, 413, 421, 422, 423
Tertiary	5	510, 520, 610, 620, 710, 720, 800

eisced3	eisced	
Primary	1	
Secondary	2, 3, 4, 5	
Tertiary	6, 7	

Table A3: Regression coefficients, descriptive statistics by country.

Country	Median	Mean	Min	Max	IQR	Range
Sweden	0.275	0.273	0.130	0.366	0.059	0.236
Norway	0.311	0.319	0.174	0.507	0.095	0.333
Denmark	0.323	0.317	0.156	0.494	0.133	0.338
Finland	0.329	0.326	0.157	0.475	0.106	0.318
Ireland	0.334	0.344	0.245	0.511	0.052	0.267
France	0.357	0.353	0.194	0.497	0.097	0.304
Estonia	0.369	0.366	0.237	0.495	0.085	0.258
United Kingdom	0.371	0.370	0.209	0.506	0.069	0.297
Germany	0.384	0.376	0.218	0.528	0.083	0.311
Switzerland	0.386	0.383	0.246	0.491	0.059	0.245
Netherlands	0.387	0.391	0.241	0.559	0.100	0.318
Belgium	0.451	0.450	0.298	0.576	0.072	0.278
Spain	0.461	0.456	0.313	0.608	0.083	0.296
Slovenia	0.462	0.463	0.244	0.620	0.108	0.376
Hungary	0.466	0.466	0.302	0.643	0.101	0.341
Poland	0.512	0.501	0.406	0.583	0.056	0.177
Mean	0.386	0.385	0.236	0.529	0.085	0.293

Table A4: Correlations, descriptive statistics by country.

Country	Median	Mean	Min	Max	IQR	Range
Denmark	0.310	0.307	0.155	0.427	0.062	0.271
Germany	0.327	0.327	0.212	0.441	0.049	0.229
United Kingdom	0.333	0.331	0.175	0.463	0.067	0.288
Norway	0.333	0.341	0.181	0.481	0.080	0.300
Switzerland	0.377	0.366	0.231	0.475	0.080	0.245
Sweden	0.380	0.382	0.196	0.505	0.076	0.309
Netherlands	0.386	0.388	0.250	0.525	0.066	0.275
Finland	0.396	0.393	0.195	0.569	0.132	0.374
France	0.401	0.392	0.218	0.526	0.101	0.308
Spain	0.413	0.415	0.290	0.592	0.077	0.302
Ireland	0.423	0.432	0.312	0.605	0.059	0.292
Estonia	0.433	0.432	0.299	0.557	0.083	0.258
Belgium	0.455	0.452	0.310	0.577	0.074	0.268
Slovenia	0.465	0.465	0.272	0.568	0.068	0.296
Hungary	0.507	0.517	0.406	0.666	0.092	0.259
Poland	0.515	0.515	0.443	0.582	0.037	0.139
Mean	0.403	0.403	0.259	0.535	0.075	0.276

Table A5: Log odds ratios, descriptive statistics by country.

Country	Median	Mean	Min	Max	IQR	Range
Sweden	1.381	1.394	0.719	2.038	0.261	1.319
Germany	1.403	1.387	0.923	1.896	0.358	0.972
Finland	1.453	1.421	0.826	2.066	0.303	1.241
Denmark	1.463	1.447	0.506	1.998	0.208	1.491
Estonia	1.492	1.506	1.202	1.881	0.183	0.680
United Kingdom	1.540	1.518	0.826	2.079	0.272	1.252
Norway	1.553	1.543	1.058	2.063	0.258	1.005
Netherlands	1.680	1.719	1.136	2.309	0.312	1.173
Slovenia	1.756	1.774	0.782	2.524	0.398	1.742
Switzerland	1.834	1.920	1.099	3.792	0.537	2.693
Belgium	1.942	1.950	1.597	2.366	0.167	0.769
France	2.123	2.140	1.626	2.910	0.308	1.284
Spain	2.147	2.147	1.440	2.691	0.286	1.251
Ireland	2.215	2.232	1.462	2.946	0.436	1.484
Hungary	2.385	2.400	1.699	2.936	0.230	1.237
Poland	2.519	2.538	1.867	3.106	0.159	1.238
Mean	1.806	1.815	1.173	2.475	0.292	1.302

Table A6: Unidiff, descriptive statistics by country.

Country	Median	Mean	Min	Max	IQR	Range
United Kingdom	-1.481	-1.548	-3.129	-0.683	0.574	2.446
Sweden	-1.054	-0.979	-2.383	0.648	0.825	3.032
Finland	-1.030	-1.066	-2.039	-0.024	0.467	2.015
Denmark	-0.784	-0.785	-2.503	0.281	0.459	2.784
Spain	-0.549	-0.550	-1.539	0.275	0.384	1.814
France	-0.316	-0.302	-0.964	0.903	0.314	1.867
Netherlands	-0.274	-0.316	-1.225	0.508	0.569	1.733
Estonia	-0.083	-0.056	-0.836	0.908	0.440	1.744
Belgium	-0.003	0.030	-0.634	1.014	0.339	1.648
Norway	0.146	0.130	-0.798	0.772	0.494	1.570
Ireland	0.216	0.203	-0.487	0.936	0.410	1.423
Germany	0.233	0.189	-1.335	1.043	0.625	2.378
Slovenia	0.882	0.825	-1.400	1.496	0.448	2.896
Switzerland	0.888	0.844	-0.642	2.130	0.417	2.771
Poland	1.675	1.705	0.974	2.313	0.391	1.339
Hungary	1.702	1.678	1.059	2.317	0.314	1.258
Mean	0.011	0.000	-1.118	0.927	0.467	2.045

Table A7: Rank correlations, descriptive statistics by country.

Country	Median	Mean	Min	Max	IQR	Range
United Kingdom	0.281	0.283	0.173	0.405	0.050	0.232
France	0.324	0.321	0.177	0.450	0.083	0.273
Norway	0.340	0.340	0.184	0.476	0.076	0.291
Germany	0.344	0.343	0.240	0.442	0.045	0.202
Denmark	0.347	0.337	0.166	0.444	0.073	0.278
Netherlands	0.349	0.347	0.210	0.471	0.072	0.261
Finland	0.353	0.354	0.169	0.504	0.115	0.335
Switzerland	0.372	0.367	0.191	0.489	0.078	0.298
Sweden	0.372	0.372	0.220	0.486	0.073	0.266
Spain	0.402	0.397	0.260	0.564	0.104	0.304
Ireland	0.410	0.407	0.267	0.527	0.077	0.260
Estonia	0.418	0.420	0.280	0.536	0.089	0.256
Belgium	0.420	0.418	0.330	0.517	0.049	0.187
Slovenia	0.427	0.431	0.248	0.579	0.097	0.331
Hungary	0.500	0.505	0.402	0.635	0.072	0.233
Poland	0.507	0.498	0.400	0.615	0.065	0.215
Mean	0.385	0.384	0.245	0.509	0.076	0.264

2   Separate results by gender
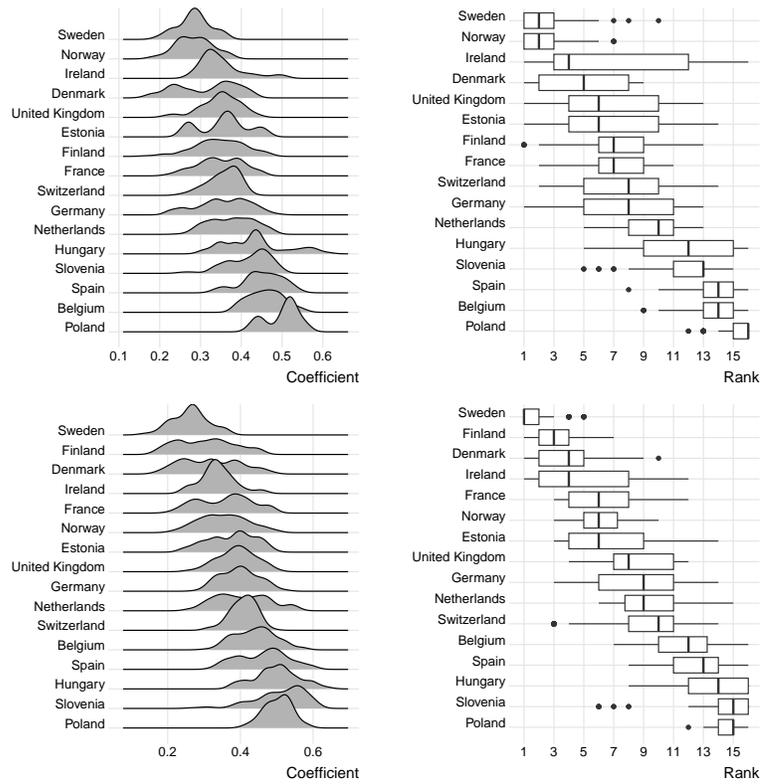
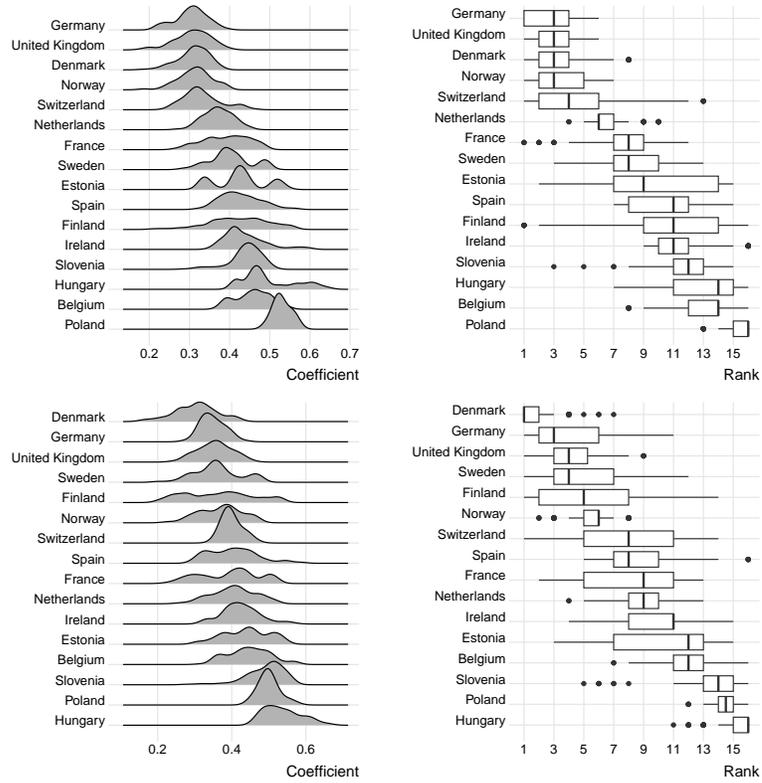Figure A1: Regression slopes, separated by gender. Top: men, bottom: women.

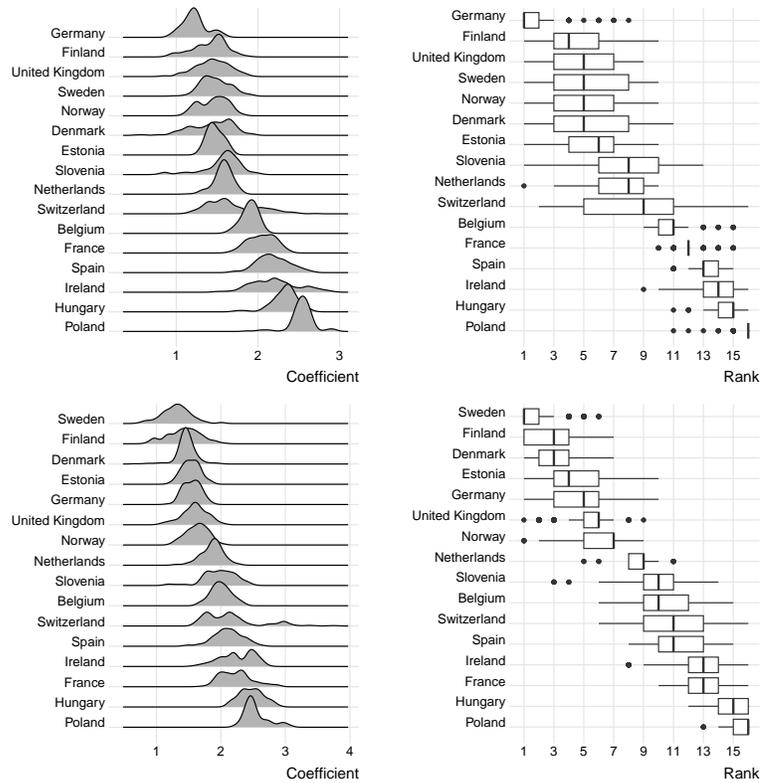Figure A2: Correlations, separated by gender. Top: men, bottom: women.

Figure A3: Log odds ratios, separated by gender. Top: men, bottom: women.
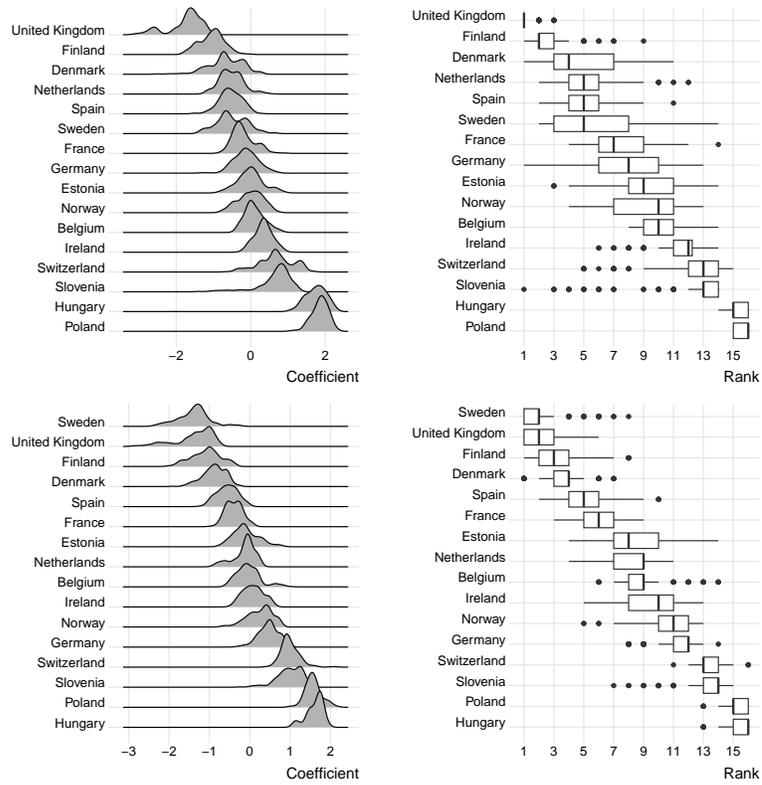
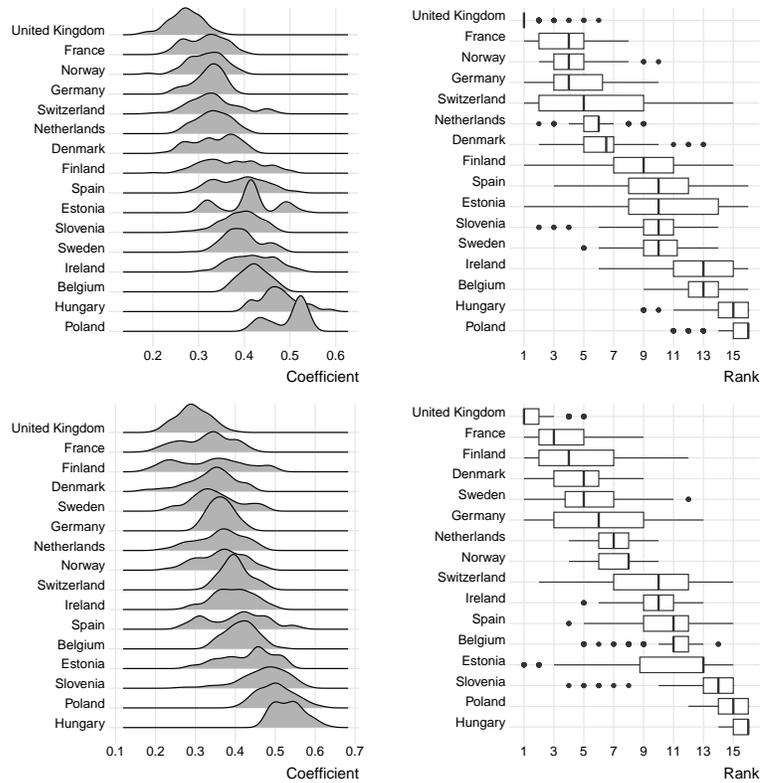Figure A4: Unidiff, separated by gender. Top: men, bottom: women.

Figure A5: Rank correlations, separated by gender. Top: men, bottom: women.
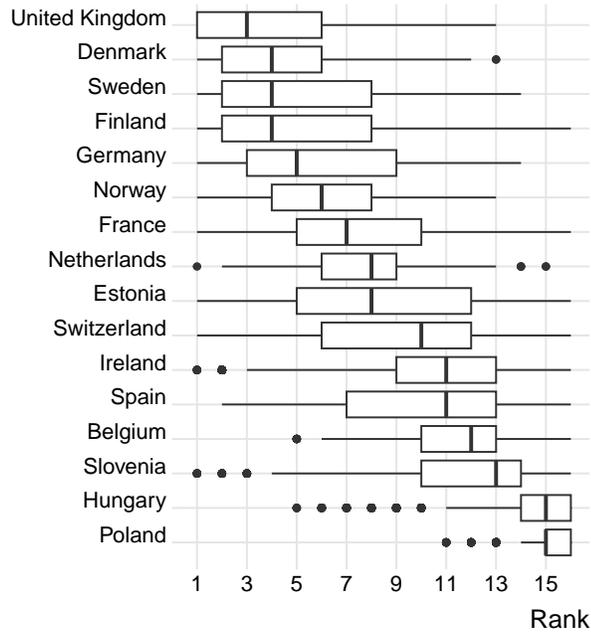
3   Stability and overlap across parameters

Figure A6: Ranking distributions for all parameters.

Table A8: Correlation between country rankings based on different parameters.

	Regression	Correlation	Log odds	Unidiff	Rank corr
Regression	1.000				
Correlation	0.599	1.000			
Log odds	0.531	0.643	1.000		
Unidiff	0.505	0.470	0.566	1.000	
Rank corr	0.570	0.838	0.541	0.538	1.000

Table A9: Factor analysis: Eigenvalues and proportion of variance.

Factor	Eigenvalue	Difference	Proportion	Cumulative
1	2.93631	2.73209	1.0144	1.0144
2	0.20422	0.20971	0.0705	1.0849
3	-0.00549	0.05728	-0.0019	1.0830
4	-0.06277	0.11476	-0.0217	1.0613
5	-0.17753		-0.0613	1.0000

Table A10: Factor loadings (pattern matrix) and unique variances.

Parameter	Factor 1	Factor 2	Uniqueness
Regression	0.6920	0.0994	0.5113
Correlation	0.8782	-0.2187	0.1810
Log odds	0.7298	0.1936	0.4299
Unidiff	0.6535	0.2515	0.5097
Rank corr	0.8524	-0.2140	0.2276
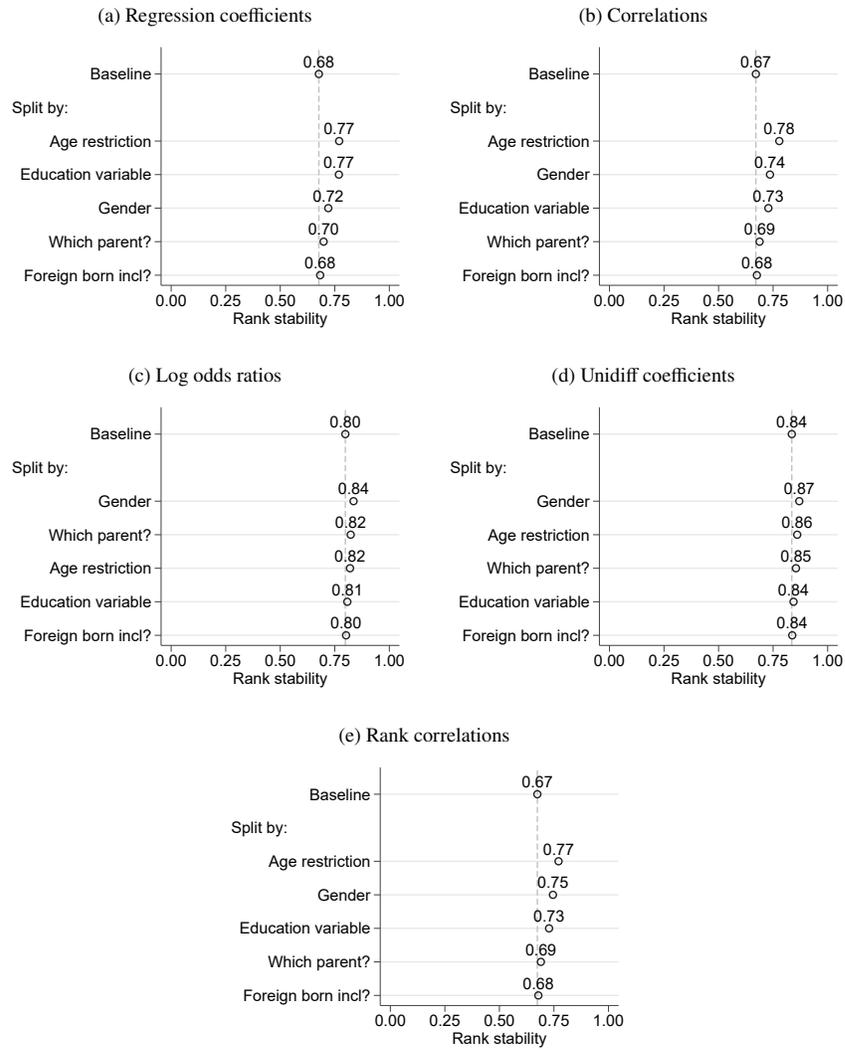
Figure A7: Rank stability by parameter of association.

Note: The figure shows rank stability at baseline and split by model components, by parameter of association.

4 Sampling vs model uncertainty

(a) Regression coefficients

(b) Correlations

(c) Log odds ratios

(d) Rank correlations
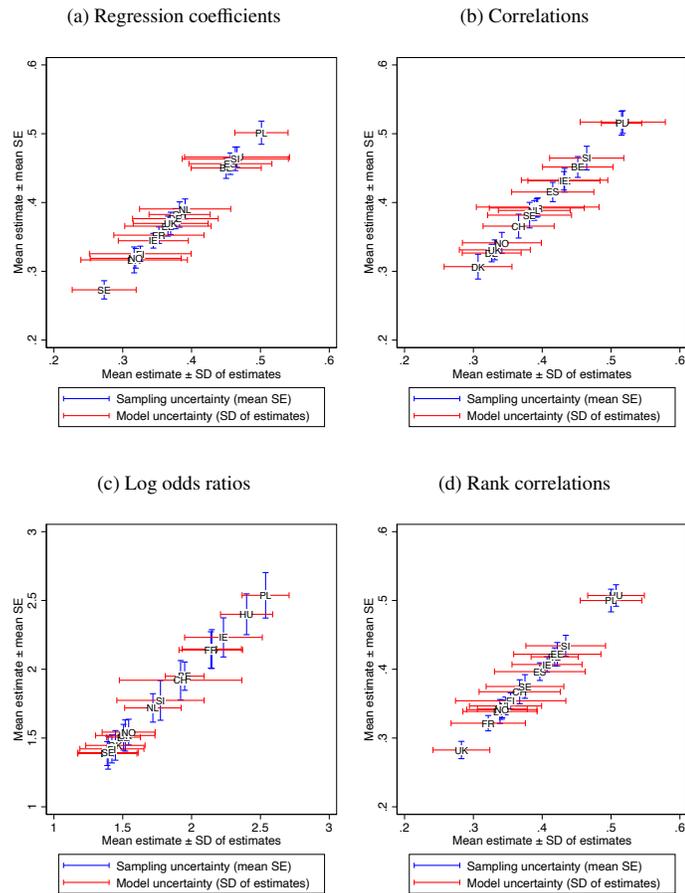
Figure A8: Sampling and model uncertainty.

Note: The figure plots average point estimates across specifications for each country, by parameter of association. Vertical error bars represent sampling uncertainty (mean of standard errors across specifications). Horizontal error bars represent model uncertainty (standard deviation of point estimates across specifications).

4.1   Single-model results with bootstrap
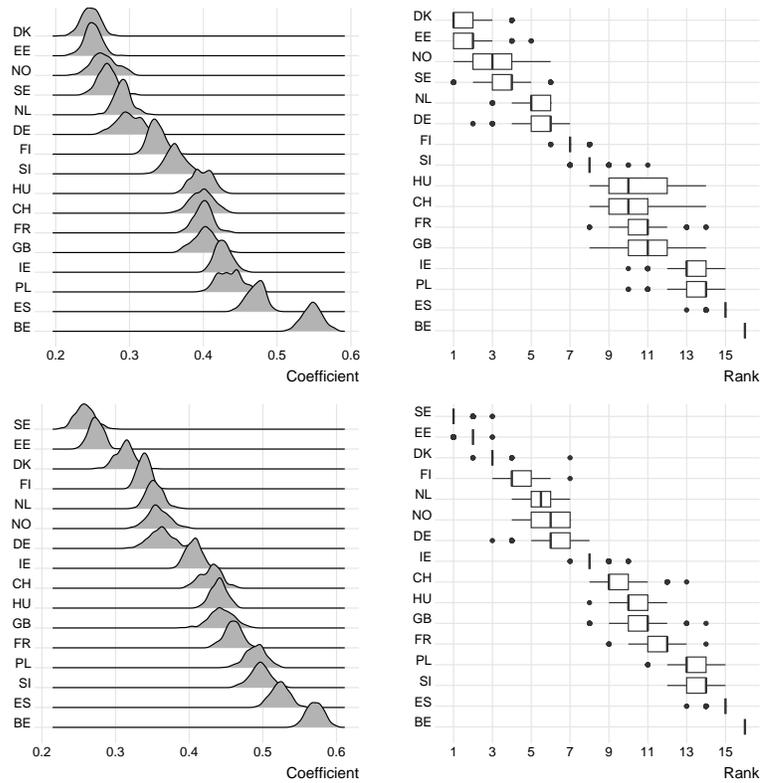
Figure A9: Regression slopes, 1 specification with 250 bootstrap iterations per country. Top: men, bottom: women.
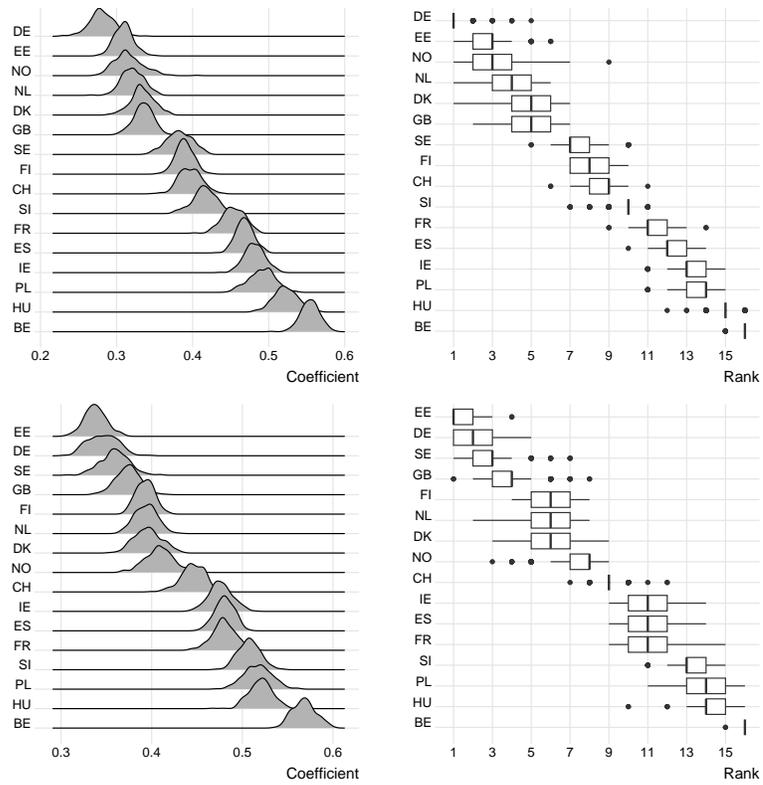
Figure A10: Correlations, 1 specification with 250 bootstrap iterations per country. Top: men, bottom: women.
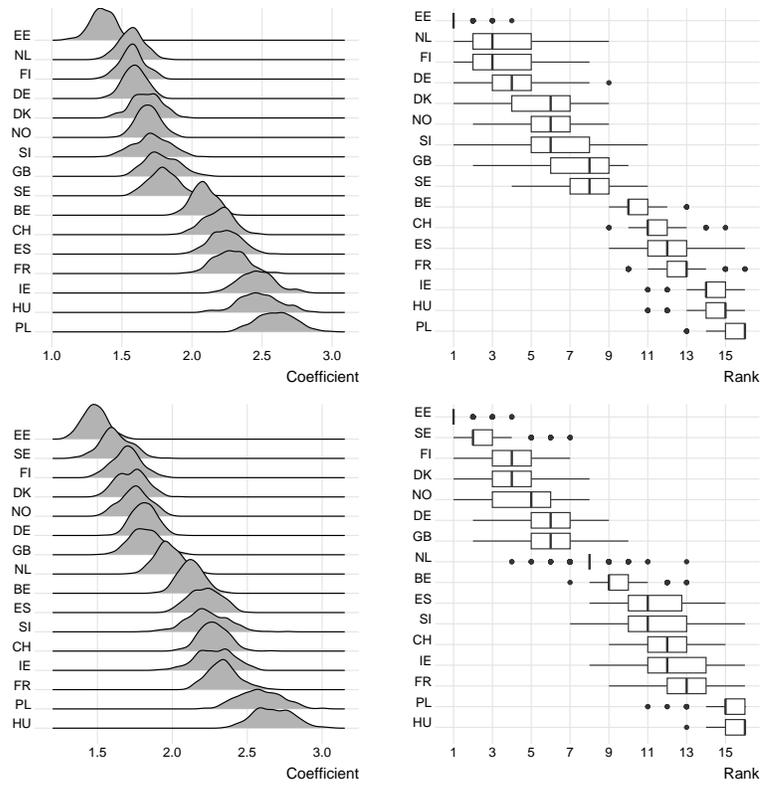
Figure A11: Log odds ratios, 1 specification with 250 bootstrap iterations per country. Top: men, bottom: women.
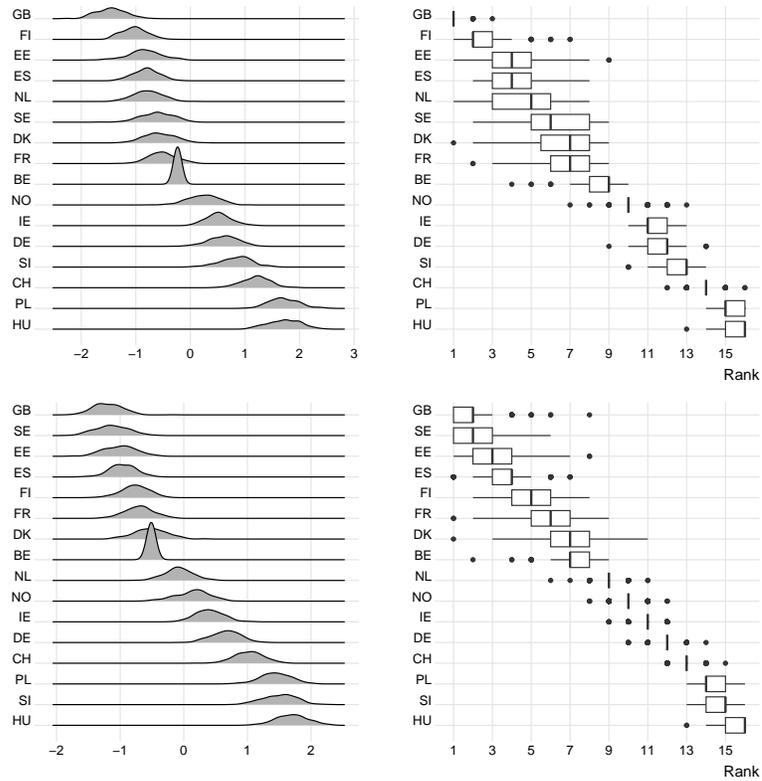
Figure A12: Unidiff, 1 specification with 250 bootstrap iterations per country. Top: men, bottom: women.
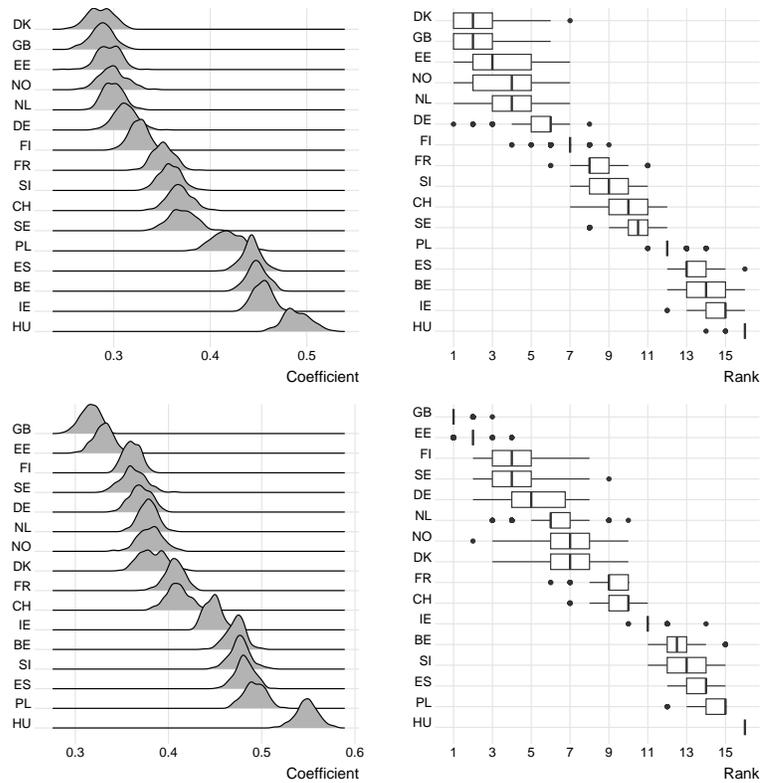
Figure A13: Rank correlations, 1 specification with 250 bootstrap iterations per country. Top: men, bottom: women.

4.2 Multiverse results with pseudo-bootstrap
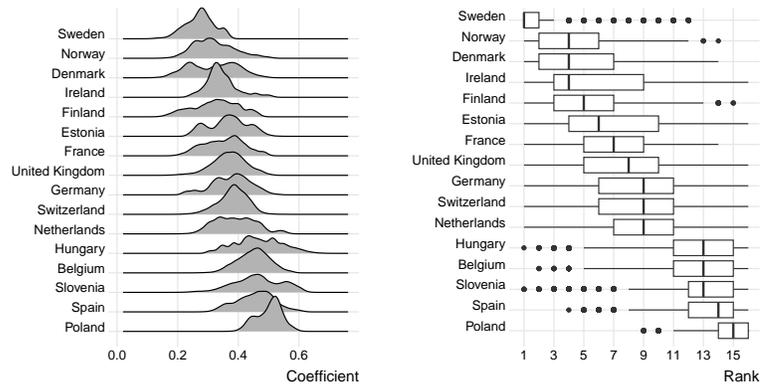
Figure A14: Regression coefficients, pseudo-bootstrapped, 250 rankings per country-specification.
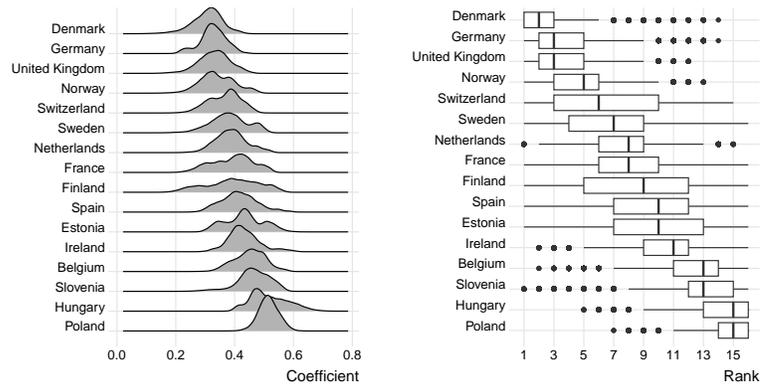
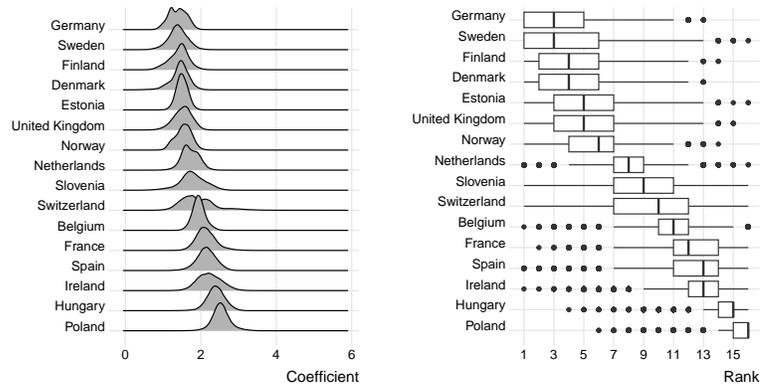Figure A15: Correlations, pseudo-bootstrapped, 250 rankings per country-specification.

Figure A16: Log odds ratios, pseudo-bootstrapped, 250 rankings per country-specification.
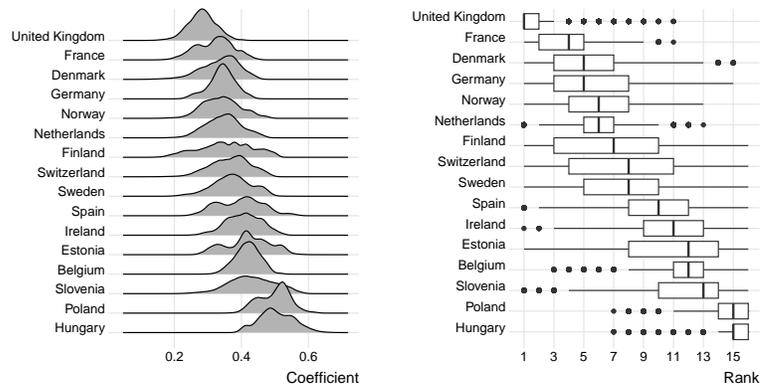

Figure A17: Rank correlations, pseudo-bootstrapped, 250 rankings per country-specification.

5   Result of article search

Ahmed, Nawazuddin, and Dinesh K. Nauriyal. 2023. "Occupational and Educational Mobility Among Indian Muslims: Primary Survey-Based Evidence." *Millennial Asia* 14(2):228–59. doi: 10.1177/09763996211044376.

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Bauer, Philipp C., and Regina T. Riphahn. 2006. "Timing of School Tracking as a Determinant of Intergenerational Transmission of Education." *Economics Letters* 91(1):90–97. doi: 10.1016/j.econlet.2005.11.003.

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