

Supplementary materials for Effects of linguistic distance of cognitive skills, health, and
social outcomes in Canadian immigrants

Affiliation

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Supplementary materials: Coefficient tables of regression models

Independent variables include:

- Age (numeric)
- ImmYears, years since immigration (numeric)
- Education, the highest level of education completed by the individual (lower secondary or less (1), upper secondary (2), post-secondary – non-tertiary (3), tertiary – professional degree (4), tertiary – bachelor degree (5), or tertiary – master/research degree (6)).
- ReadHome, use of the reading skill at home (discretized into 5 quantiles)
- NumBooks, the number of books that “were there in your home when you were 16 years old” (10 books or less (1), 11 to 25 books (2), 26 to 100 books (3), 101 to 200 books (4), 201 to 500 books (5), or more than 500 books (6)).
- MotherEducation, the highest level of education completed by the mother (secondary (1), post-secondary professional (2), tertiary (3), or don’t know (7)).
- LogGDP, log-transformed (based 10) gross domestic product of the country of origin.
- LexDistance, lexical distance between the L1 of the participant and test language (English or French).

Predictor	Estimate	Std Error	t-value
Intercept	139.591	15.417	9.054
Education2	24.953	5.659	4.409
Education3	32.314	7.626	4.237
Education4	38.175	5.705	6.692
Education5	58.441	5.979	9.775
Education6	68.857	7.031	9.793
ReadHome	7.124	1.225	5.818
Age	-0.872	0.156	-5.603
NumBooks2	7.433	6.093	1.220
NumBooks3	12.068	5.197	2.322
NumBooks4	15.550	6.572	2.366
NumBooks5	16.357	7.447	2.197
NumBooks6	12.415	7.877	1.576
ImmYears	0.524	0.130	4.019
MotherEducation2	5.813	4.176	1.392
MotherEducation3	15.728	4.650	3.382
MotherEducation7	3.875	11.855	0.327
LogGDP	19.029	2.912	6.534
LexDistance	-0.544	0.256	-2.126
R-squared	0.449	0.025	18.233

Table S1

Weighted regression model fitted to literacy scores. Unweighted $N = 2,018$. $\Delta R^2 = 0.4\%$.

Predictor	Estimate	Std Error	t-value
Intercept	80.201	21.792	3.680
Education2	23.553	7.052	3.340
Education3	32.482	9.053	3.588
Education4	40.579	6.350	6.391
Education5	63.995	6.864	9.323
Education6	70.228	8.209	8.555
ReadHome	9.392	1.412	6.650
Age	-0.792	0.203	-3.898
NumBooks2	9.270	7.618	1.217
NumBooks3	14.947	6.524	2.291
NumBooks4	17.995	8.138	2.211
NumBooks5	19.636	7.905	2.484
NumBooks6	16.183	9.250	1.750
ImmYears	0.410	0.151	2.711
MotherEducation2	9.513	4.784	1.988
MotherEducation3	23.295	5.047	4.616
MotherEducation7	8.749	12.197	0.717
LogGDP	26.274	4.051	6.486
LexDistance	0.276	0.270	1.023
R-squared	0.442	0.026	16.722

Table S2

Weighted regression model fitted to numeracy scores. Unweighted $N = 2,018$.

$\Delta R^2 = 0.1\%$.

Predictor	Estimate	Std Error	t-value
Intercept	1.374	0.326	4.215
ReadHome	0.108	0.029	3.663
Age	0.001	0.003	0.203
NumBooks2	0.017	0.106	0.164
NumBooks3	-0.062	0.100	-0.622
NumBooks4	0.043	0.115	0.372
NumBooks5	0.305	0.151	2.023
NumBooks6	0.398	0.212	1.877
Education2	-0.165	0.093	-1.780
Education3	-0.271	0.156	-1.736
Education4	-0.069	0.139	-0.499
Education5	-0.063	0.131	-0.484
Education6	-0.204	0.147	-1.389
ImmYears	0.003	0.002	1.076
MotherEducation2	0.008	0.090	0.093
MotherEducation3	-0.005	0.105	-0.050
MotherEducation7	-0.203	0.192	-1.060
LogGDP	-0.131	0.062	-2.113
Literacy	0.003	0.001	3.388
LexDistance	-0.015	0.006	-2.716
R-squared	0.100	0.017	5.711

Table S3

Weighted regression model fitted to volunteering frequency. Unweighted $N = 2,018$.

$\Delta R^2 = 1.0\%$

Predictor	Estimate	Std Error	t-value
Intercept	1.988	0.362	5.495
ReadHome	0.059	0.034	1.755
Age	0.001	0.004	0.312
NumBooks2	0.029	0.133	0.221
NumBooks3	-0.019	0.110	-0.175
NumBooks4	-0.006	0.189	-0.032
NumBooks5	-0.095	0.175	-0.543
NumBooks6	0.003	0.168	0.016
Education2	0.011	0.137	0.081
Education3	-0.218	0.246	-0.883
Education4	-0.048	0.191	-0.249
Education5	0.116	0.173	0.672
Education6	0.119	0.181	0.661
ImmYears	0.002	0.003	0.960
MotherEducation2	0.068	0.102	0.672
MotherEducation3	0.059	0.113	0.523
MotherEducation7	-0.554	0.319	-1.739
LogGDP	-0.028	0.073	-0.375
Literacy	0.003	0.001	2.774
LexDistance	-0.002	0.005	-0.314
R-squared	0.050	0.015	3.314

Table S4

Weighted regression model fitted to the measure of political efficacy. Unweighted N = 2,018. $\Delta R^2 = 0.1\%$

Predictor	Estimate	Std Error	t-value
Intercept	-0.456	0.465	-0.980
ReadHome	0.034	0.041	0.820
Age	0.008	0.007	1.124
NumBooks2	-0.132	0.172	-0.769
NumBooks3	-0.117	0.200	-0.587
NumBooks4	-0.140	0.210	-0.666
NumBooks5	-0.038	0.243	-0.156
NumBooks6	-0.359	0.305	-1.175
Education2	0.450	0.202	2.227
Education3	0.672	0.309	2.176
Education4	0.870	0.247	3.529
Education5	1.136	0.232	4.889
Education6	1.480	0.268	5.524
Literacy	0.004	0.001	3.425
ImmYears	0.014	0.005	2.577
MotherEducation2	-0.052	0.124	-0.419
MotherEducation3	-0.178	0.169	-1.056
MotherEducation7	-0.276	0.253	-1.092
LogGDP	0.270	0.094	2.865
LexDistance	-0.006	0.006	-1.012
R-squared	0.218	0.030	7.344

Table S5

Weighted regression model fitted to the income measure. Unweighted $N = 1,380$.

$\Delta R^2 = 0.0\%$

Predictor	Estimate	Std Error	t-value
Intercept	1.358	0.328	4.145
ReadHome	-0.095	0.025	-3.711
Age	0.014	0.003	4.350
NumBooks2	-0.122	0.122	-1.002
NumBooks3	-0.142	0.110	-1.296
NumBooks4	-0.272	0.147	-1.855
NumBooks5	-0.251	0.174	-1.439
NumBooks6	-0.337	0.174	-1.939
Education2	-0.007	0.110	-0.061
Education3	0.045	0.150	0.298
Education4	-0.121	0.122	-0.995
Education5	-0.219	0.118	-1.860
Education6	-0.143	0.133	-1.072
ImmYears	-0.002	0.003	-0.752
MotherEducation2	0.100	0.089	1.129
MotherEducation3	0.240	0.084	2.837
MotherEducation7	0.464	0.334	1.390
LogGDP	0.156	0.068	2.277
LexDistance	0.025	0.005	4.866
R-squared	0.111	0.023	4.781

Table S6

Weighted regression model fitted to subjective health measure. Unweighted $N = 2,018$.

$\Delta R^2 = 2.6\%$