

Econometric estimation

Pooled estimator

Random effects estimator

Fixed effects estimator

Poisson pseudo-maximum-likelihood estimator For regressors not in logs, the semi-elasticity is given by $100 \cdot (\exp(\beta) - 1)\%$.

<https://www.statalist.org/forums/forum/general-stata-discussion/general/1458657-interpretation-of-coefficients-in-gravity-model-using-ppml-dummies>

Hausman test

RESET test

Results

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at gmail.com % Date and time: Fri, Jul 01, 2022 - 10:16:16

Table 1:

	POLS (1)	REE (2)	FEE (3)	PPML (4)
Suma bilateral del producto interno bruto	2.428*** (0.476)	1.718*** (0.093)	1.674*** (0.077)	0.971*** (0.017)
Diferencia en la dotación relativa de factores	0.434 (0.539)	−0.125 (0.187)	−0.170 (0.154)	0.168** (0.081)
Similitud en el tamaño de las economías	11.410*** (4.197)	5.441*** (0.786)	5.045*** (0.514)	2.483*** (0.247)
Distancia entre principales centros urbanos	−2.092*** (0.307)	−2.554*** (0.092)	−2.589*** (0.113)	−1.117*** (0.054)
Fronteras en común	−0.752 (0.677)	−1.632*** (0.165)	−1.703*** (0.117)	−0.275** (0.111)
Lenguaje en común	3.914** (1.744)	1.136*** (0.179)	0.947*** (0.119)	0.041 (0.205)
Colonizador en común	−2.320** (1.072)	−0.923*** (0.220)	−0.858*** (0.218)	0.632*** (0.089)
Índice de similitud en creencias religiosas	−1.991 (1.878)	−1.269*** (0.234)	−1.215*** (0.162)	0.199 (0.323)
Acuerdos comerciales regionales	0.579 (0.450)	0.671* (0.368)	0.689* (0.353)	0.565*** (0.090)
Constante	−33.028** (14.829)	−9.726*** (2.343)		
<i>N</i>	1,560	1,560	1,560	1,560
<i>R</i> ²	0.640	0.613	0.559	
Adjusted <i>R</i> ²	0.638	0.611	0.548	
F Statistic	306.748***	1,956.964***	214.204***	
Pseudo <i>R</i> ²				0.915

Notes:

*** Significant at the 1 percent level.

** Significant at the 5 percent level.

* Significant at the 10 percent level.