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# Appendix 2 from "The impact of exposure to missionaries on the English language proficiency and earnings of immigrants in the US"

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Appendix 2

Missionaries  
on the English  
language  
proficiency

Foreign-born males Variable	Obs	Mean	SD	Min.	Max.
Good English	388,279	0.6949848	0.4604145	0	1
Ln adjusted total earnings	388,279	10.34335	0.9213317	6.907235	13.80359
Adjusted total earnings	388,279	44,365.57	52,657.18	1,000	974,000
Married/cohabitating	388,279	0.6487835	0.4773511	0	1
Age	388,279	41.26842	10.0922	25	64
Age at migration	388,279	23.08099	10.70718	0	64
Schooling	388,279	12.19508	4.579726	0	20
Years since migration (YSM)	388,279	18.19105	11.23807	0	64
YSM squared	388,279	457.2081	504.1203	0	4,096
South	388,279	0.3173259	0.4654361	0	1
Experience	388,279	24.07333	10.99609	0	59
Experience squared	388,279	700.4391	590.8389	0	3,481
Catholic missionary	388,279	1.317895	1.088348	0	15.38088
Protestant missionary	388,279	0.3271688	0.526037	0	9.05131
Ln weeks worked	388,279	3.793636	0.3942051	1.94591	3.931826

Source: American Community Survey 2005–2009

**Table AII.**  
Descriptive statistics  
of the variables for  
foreign-born males

Foreign-born females Variable	Obs	Mean	SD	Min.	Max.
Good English	301,182	0.721318	0.4483514	0	1
Ln adjusted total earnings	301,182	9.924858	1.049314	6.907235	13.61898
Adjusted total earnings	301,182	31,063.9	35,387.32	1,000	822,000
Married/cohabitating	301,182	0.6184666	0.4857638	0	1
Age	301,182	42.08481	10.01132	25	64
Age at migration	301,182	23.14471	11.12901	0	64
Schooling	301,182	12.77493	4.200978	0	20
Years since migration (YSM)	301,182	18.94502	11.32683	0	65
YSM Squared	301,182	487.2106	525.0929	0	4225
Kid	301,182	0.4931669	0.4999541	0	1
South	301,182	0.3012995	0.4588233	0	1
Experience	301,182	24.30988	11.17408	0	59
Experience squared	301,182	715.8297	592.7911	0	3,481
Catholic missionary	301,182	1.243393	1.190112	0	15.38088
Protestant missionary	301,182	0.3708247	0.6175488	0	9.05131
Ln weeks worked	301,182	3.694889	0.5277216	1.94591	3.931826

Notes: Foreign-born males and females aged 25–64 years who worked in the previous year. Adjusted total earnings means earnings adjusted for price differences in each year, expressed in 2009 dollars

Source: American Community Survey, PUMS, 2005–2009

**Table AIII.**  
Descriptive statistics  
of the variables for  
foreign-born females

**Table AIV.**  
Analysis of English language proficiency among foreign-born adult males by origin country colonial heritage, with interaction variables and year fixed effects

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Married spouse present	0.0578*** (0.0018)	0.0030 (0.0025)	0.0617*** (0.0020)	0.0021 (0.0060)	0.0754*** (0.0023)
Age at migration	-0.0067*** (0.0001)	-0.0026*** (0.0002)	-0.0076*** (0.0001)	-0.0105*** (0.0003)	-0.0069*** (0.0001)
Schooling	0.0473*** (0.0004)	0.0178*** (0.0007)	0.0470*** (0.0005)	0.0277*** (0.0016)	0.0435*** (0.0011)
Years since migration	0.0106*** (0.0002)	0.0028*** (0.0004)	0.0131*** (0.0003)	0.0074*** (0.0013)	0.0194*** (0.0004)
YSM squared	-0.0002*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0002*** (0.0000)	-0.0003*** (0.0000)
Catholic missionary	-0.0633*** (0.0037)	-0.0402*** (0.0061)	-0.0276*** (0.0041)	-0.5308*** (0.0427)	0.0426*** (0.0064)
Catholic x schooling	-0.0007*** (0.0002)	0.0021*** (0.0004)	-0.0019*** (0.0003)	0.0121*** (0.0025)	-0.0022*** (0.0005)
Catholic x YSM	0.0026*** (0.0001)	0.0002* (0.0001)	0.0021*** (0.0001)	0.0111*** (0.0009)	-0.0001 (0.0001)
Protestant missionary	0.3573*** (0.0084)	0.1188*** (0.0096)	0.2687*** (0.0158)	0.6053*** (0.0445)	0.1240*** (0.0330)
Protestant x schooling	-0.0121*** (0.0005)	-0.0063*** (0.0006)	-0.0033*** (0.0010)	-0.0179*** (0.0026)	0.0082*** (0.0023)
Protestant x YSM	-0.0047*** (0.0001)	-0.0006*** (0.0001)	-0.0056*** (0.0002)	-0.0109*** (0.0008)	-0.0058*** (0.0005)
GDP origin year migrate	-0.0081*** (0.0002)	0.0018*** (0.0002)	-0.0071*** (0.0002)	0.0349*** (0.0035)	-0.0141*** (0.0004)
y2005	-0.0056* (0.0026)	-0.0026 (0.0034)	-0.0053 (0.0030)	-0.0032 (0.0086)	-0.0073* (0.0036)
y2006	-0.0078*** (0.0025)	0.0003 (0.0030)	-0.0089** (0.0028)	-0.0110 (0.0085)	-0.0092*** (0.0034)
y2007	-0.0050* (0.0025)	0.0007 (0.0029)	-0.0056* (0.0028)	-0.0018 (0.0081)	-0.0063 (0.0033)
y2008	-0.0040 (0.0025)	-0.0074* (0.0033)	-0.0044 (0.0028)	-0.0019 (0.0081)	-0.0051 (0.0033)
Constant	0.1726*** (0.0079)	0.7166*** (0.0125)	0.1216*** (0.0095)	0.6435*** (0.0333)	0.0462*** (0.0169)
Observations	388,279	59,507	328,772	26,050	243,080
$R^2$	0.3201	0.0980	0.2902	0.2970	0.2650
Adj. $R^2$	0.320	0.0978	0.290	0.297	0.265
Mean	0.658	0.964	0.607	0.777	0.553
SD	0.474	0.187	0.488	0.416	0.497

**Notes:** Dependent variable: GoodEnglish. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Sources:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Married spouse present	0.0270*** (0.0019)	-0.0242*** (0.0023)	0.0345*** (0.0021)	-0.0084 (0.0073)	0.0427*** (0.0026)
Age at migration	-0.0066*** (0.0001)	-0.0020*** (0.0001)	-0.0077*** (0.0001)	-0.0107*** (0.0004)	-0.0072*** (0.0001)
Schooling	0.0510*** (0.0005)	0.0223*** (0.0009)	0.0495*** (0.0005)	0.0374*** (0.0016)	0.0625*** (0.0012)
Years since migration	0.0087*** (0.0003)	0.0040*** (0.0004)	0.0096*** (0.0003)	0.0093*** (0.0015)	0.0128*** (0.0004)
YSM squared	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0002*** (0.0000)
Kids	-0.0235*** (0.0019)	0.0033 (0.0022)	-0.0292*** (0.0022)	-0.0204** (0.0071)	-0.0268*** (0.0027)
Catholic missionary	-0.0983*** (0.0049)	-0.0415*** (0.0066)	-0.0888*** (0.0046)	-0.3605*** (0.0410)	0.0570*** (0.0075)
Catholic x schooling	0.0033*** (0.0003)	0.0023*** (0.0004)	0.0025*** (0.0003)	0.0021 (0.0025)	-0.0053*** (0.0005)
Catholic x YSM	0.0017*** (0.0001)	0.0002 (0.0001)	0.0018*** (0.0001)	0.0106*** (0.0011)	0.0009*** (0.0001)
Protestant missionary	0.4312*** (0.0085)	0.1548*** (0.0093)	0.3683*** (0.0195)	0.5626*** (0.0488)	0.3652*** (0.0350)
Protestant x schooling	-0.0179*** (0.0005)	-0.0084*** (0.0006)	-0.0083*** (0.0012)	-0.0134*** (0.0029)	-0.0059* (0.0024)
Protestant x YSM	-0.0045*** (0.0001)	-0.0009*** (0.0001)	-0.0063*** (0.0002)	-0.0123*** (0.0009)	-0.0076*** (0.0005)
GDP origin year migrate	-0.0069*** (0.0002)	0.0025*** (0.0002)	-0.0067*** (0.0002)	0.0439*** (0.0051)	-0.0176*** (0.0004)
y2005	-0.0050 (0.0027)	0.0002 (0.0036)	-0.0058 (0.0031)	0.0045 (0.0099)	-0.0086* (0.0038)
y2006	-0.0044 (0.0026)	0.0027 (0.0033)	-0.0063* (0.0030)	-0.0046 (0.0099)	-0.0074* (0.0037)
y2007	-0.0006 (0.0026)	0.0044 (0.0032)	-0.0014 (0.0030)	0.0103 (0.0094)	-0.0034 (0.0036)
y2008	-0.0007 (0.0026)	0.0065* (0.0031)	-0.0021 (0.0029)	0.0040 (0.0095)	-0.0046 (0.0036)
Constant	0.1393*** (0.0095)	0.6196*** (0.0157)	0.1487*** (0.0105)	0.4052*** (0.0369)	-0.0608** (0.0191)
Observations	301,182	46,223	254,959	22,582	176,282
R <sup>2</sup>	0.3557	0.1249	0.3391	0.3493	0.3416
Adj. R <sup>2</sup>	0.356	0.125	0.339	0.349	0.342
Mean	0.698	0.960	0.651	0.688	0.602
SD	0.459	0.195	0.477	0.463	0.489

**Notes:** Dependent variable: GoodEnglish. Foreign-born persons aged 25–64, years who worked in the prior year. 2009 is the benchmark for the year fixed effects  
**Sources:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

## Missionaries on the English language proficiency

**Table AV.**  
Analysis of English language proficiency among foreign-born adult females by origin country colonial heritage, with interaction variables and year fixed effects

**Table AVI.**  
Analysis of English language proficiency among foreign-born adult males by origin country colonial heritage: catholic missionary only, with interaction variables and year fixed effects

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Married spouse present	0.0568*** (0.0018)	0.0022 (0.0025)	0.0616*** (0.0020)	0.0052 (0.0061)	0.0753*** (0.0023)
Age at migration	-0.0064*** (0.0001)	-0.0025*** (0.0002)	-0.0074*** (0.0001)	-0.0109*** (0.0003)	-0.0068*** (0.0001)
Schooling	0.0442*** (0.0004)	0.0124*** (0.0005)	0.0456*** (0.0004)	0.0328*** (0.0013)	0.0448*** (0.0009)
Years since migration	0.0100*** (0.0002)	0.0030*** (0.0004)	0.0121*** (0.0003)	0.0158*** (0.0013)	0.0179*** (0.0004)
YSM squared	-0.0002*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0003*** (0.0000)	-0.0003*** (0.0000)
Catholic missionary	-0.0721*** (0.0040)	-0.0240*** (0.0058)	-0.0385*** (0.0041)	-0.1507*** (0.0263)	0.0338*** (0.0061)
Catholic x schooling	0.0005* (0.0002)	0.0013*** (0.0004)	-0.0010*** (0.0003)	0.0018 (0.0015)	-0.0018*** (0.0005)
Catholic x YSM	0.0025*** (0.0001)	0.0001 (0.0001)	0.0021*** (0.0001)	0.0020*** (0.0004)	-0.0000 (0.0001)
GDP origin year migrate	-0.0072*** (0.0002)	0.0034*** (0.0002)	-0.0059*** (0.0002)	0.0696*** (0.0029)	-0.0150*** (0.0004)
y2005	-0.0051 (0.0027)	-0.0015 (0.0034)	-0.0050 (0.0030)	-0.0000 (0.0087)	-0.0078* (0.0036)
y2006	-0.0074** (0.0025)	0.0008 (0.0030)	-0.0089** (0.0028)	-0.0078 (0.0086)	-0.0096** (0.0034)
y2007	-0.0049* (0.0025)	0.0010 (0.0030)	-0.0054 (0.0028)	0.0001 (0.0083)	-0.0066* (0.0033)
y2008	-0.0039 (0.0025)	-0.0075* (0.0033)	-0.0041 (0.0028)	-0.0019 (0.0081)	-0.0053 (0.0033)
Constant	0.2455*** (0.0079)	0.8075*** (0.0101)	0.1792*** (0.0086)	0.3811*** (0.0299)	0.0957*** (0.0126)
Observations	388,279	59,507	328,772	26,050	243,080
R <sup>2</sup>	0.3053	0.0779	0.2867	0.2811	0.2641
Adj. R <sup>2</sup>	0.305	0.0777	0.287	0.281	0.264
Mean	0.658	0.964	0.607	0.777	0.553
SD	0.474	0.187	0.488	0.416	0.497

**Notes:** Dependent variable: GoodEnglish. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Sources:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Married Spouse Present	0.0192*** (0.0019)	-0.0284*** (0.0023)	0.0332*** (0.0021)	-0.0077 (0.0074)	0.0413*** (0.0026)
Age at Migration	-0.0061*** (0.0001)	-0.0019*** (0.0001)	-0.0075*** (0.0001)	-0.0110*** (0.0004)	-0.0071*** (0.0001)
Schooling	0.0472*** (0.0005)	0.0142*** (0.0006)	0.0476*** (0.0005)	0.0380*** (0.0015)	0.0593*** (0.0009)
Years Since Migration	0.0083*** (0.0003)	0.0041*** (0.0004)	0.0087*** (0.0003)	0.0189*** (0.0014)	0.0109*** (0.0004)
YSM Squared	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0003*** (0.0000)	-0.0002*** (0.0000)
Kids	-0.0236*** (0.0019)	0.0040 (0.0023)	-0.0291*** (0.0022)	-0.0201** (0.0071)	-0.0264*** (0.0027)
Catholic missionary	-0.0990*** (0.0054)	-0.0192** (0.0064)	-0.0946*** (0.0046)	-0.1406*** (0.0329)	0.0352*** (0.0073)
Catholic x schooling	0.0040*** (0.0003)	0.0009* (0.0004)	0.0033*** (0.0003)	0.0004 (0.0019)	-0.0041*** (0.0005)
Catholic x YSM	0.0016*** (0.0001)	0.0000 (0.0001)	0.0017*** (0.0001)	0.0022*** (0.0006)	0.0010*** (0.0001)
GDP origin year migrate	-0.0058*** (0.0002)	0.0044*** (0.0003)	-0.0053*** (0.0002)	0.0837*** (0.0038)	-0.0184*** (0.0004)
y2005	-0.0029 (0.0028)	0.0012 (0.0037)	-0.0048 (0.0031)	0.0084 (0.0099)	-0.0083* (0.0038)
y2006	-0.0020 (0.0027)	0.0042 (0.0033)	-0.0054 (0.0030)	0.0000 (0.0099)	-0.0074* (0.0037)
y2007	0.0010 (0.0026)	0.0054 (0.0032)	-0.0006 (0.0030)	0.0132 (0.0095)	-0.0032 (0.0036)
y2008	0.0005 (0.0026)	0.0074* (0.0032)	-0.0015 (0.0029)	0.0055 (0.0096)	-0.0043 (0.0036)
Constant	0.2200*** (0.0097)	0.7571*** (0.0124)	0.2141*** (0.0097)	0.1985*** (0.0349)	0.0645*** (0.0151)
Observations	301,182	46,223	254,959	22,582	176,282
R <sup>2</sup>	0.3317	0.0896	0.3346	0.3377	0.3394
Adj. R <sup>2</sup>	0.332	0.0894	0.335	0.337	0.339
Mean	0.698	0.960	0.651	0.688	0.602
SD	0.459	0.195	0.477	0.463	0.489

Notes: Dependent variable: GoodEnglish. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \*\* $p < 0.01$ ; \* $p < 0.05$ ; \*\*\* $p < 0.001$ .

Source: US Bureau of the Census, American Community Survey, PUMS, 2005–2009

**Table AVII.**  
Analysis of English  
language proficiency  
among foreign-born  
adult females by  
origin country colonial  
heritage: catholic  
missionary only, with  
interaction variables  
and year fixed effects

**Table AVIII.**  
Analysis of English language proficiency among foreign-born adult males by origin country colonial heritage: protestant missionary only, with interaction variables and year fixed effects

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Married spouse present	0.0625*** (0.0018)	0.0024 (0.0025)	0.0636*** (0.0020)	0.0039 (0.0061)	0.0755*** (0.0023)
Age at migration	-0.0064*** (0.0001)	-0.0026*** (0.0002)	-0.0073*** (0.0001)	-0.0109*** (0.0003)	-0.0068*** (0.0001)
Schooling	0.0484*** (0.0003)	0.0180*** (0.0007)	0.0452*** (0.0003)	0.0349*** (0.0009)	0.0384*** (0.0006)
Years since migration	0.0135*** (0.0002)	0.0027*** (0.0004)	0.0165*** (0.0003)	0.0120*** (0.0013)	0.0192*** (0.0003)
YSM squared	-0.0002*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0002*** (0.0000)	-0.0003*** (0.0000)
Protestant missionary	0.3526*** (0.0093)	0.0953*** (0.0083)	0.2752*** (0.0158)	0.2101*** (0.0314)	0.0453 (0.0320)
Protestant x schooling	-0.0131*** (0.0006)	-0.0049*** (0.0005)	-0.0046*** (0.0009)	-0.0087*** (0.0017)	0.0132*** (0.0023)
Protestant x YSM	-0.0040*** (0.0001)	-0.0005*** (0.0001)	-0.0051*** (0.0002)	-0.0026*** (0.0004)	-0.0056*** (0.0005)
GDP origin year migrate	-0.0099*** (0.0002)	0.0012*** (0.0002)	-0.0071*** (0.0002)	0.0305*** (0.0038)	-0.0132*** (0.0004)
y2005	-0.0074*** (0.0026)	-0.0023 (0.0034)	-0.0059* (0.0030)	-0.0058 (0.0088)	-0.0069 (0.0036)
y2006	-0.0092*** (0.0025)	0.0001 (0.0030)	-0.0093*** (0.0028)	-0.0129 (0.0086)	-0.0089*** (0.0034)
y2007	-0.0061* (0.0025)	0.0005 (0.0030)	-0.0060* (0.0028)	-0.0026 (0.0083)	-0.0062 (0.0033)
y2008	-0.0042 (0.0025)	-0.0071* (0.0033)	-0.0046 (0.0028)	-0.0041 (0.0082)	-0.0051 (0.0033)
Constant	0.0742*** (0.0060)	0.7150*** (0.0126)	0.0605*** (0.0071)	0.3731*** (0.0249)	0.1316*** (0.0112)
Observations	388,279	59,507	328,772	26,050	243,080
R <sup>2</sup>	0.3129	0.0890	0.2876	0.2776	0.2646
Adj. R <sup>2</sup>	0.313	0.0888	0.288	0.277	0.265
Mean	0.658	0.964	0.607	0.777	0.553
SD	0.474	0.187	0.488	0.416	0.497

**Notes:** Dependent variable: GoodEnglish. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Sources:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

Variables	All	UK	Non-UK	French	Spanish
Married spouse present	0.0298*** (0.0019)	-0.0237*** (0.0023)	0.0365*** (0.0021)	-0.01105 (0.0074)	0.0431*** (0.0026)
Age at migration	-0.0064*** (0.0001)	-0.0020*** (0.0001)	-0.0075*** (0.0001)	-0.0111*** (0.0004)	-0.0072*** (0.0001)
Schooling	0.0567*** (0.0003)	0.0228*** (0.0009)	0.0541*** (0.0004)	0.0383*** (0.0008)	0.0515*** (0.0007)
Years since migration	0.0104*** (0.0003)	0.0039*** (0.0004)	0.0121*** (0.0003)	0.0135*** (0.0014)	0.0144*** (0.0004)
YSM squared	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0002*** (0.0000)
Kids	-0.0264*** (0.0019)	0.0021 (0.0022)	-0.0320*** (0.0022)	-0.0187** (0.0071)	-0.0266*** (0.0027)
Protestant missionary	0.4191*** (0.0096)	0.1315*** (0.0080)	0.3541*** (0.0197)	0.3578*** (0.0429)	0.2732*** (0.0346)
Protestant x schooling	-0.0179*** (0.0006)	-0.0069*** (0.0005)	-0.0082*** (0.0012)	-0.0125*** (0.0024)	0.0003 (0.0024)
Protestant x YSM	-0.0040*** (0.0001)	-0.0009*** (0.0001)	-0.0058*** (0.0002)	-0.0052*** (0.0005)	-0.0075*** (0.0005)
GDP origin year migrate	-0.0087*** (0.0002)	0.0017*** (0.0002)	-0.0076*** (0.0002)	0.0265*** (0.0057)	-0.0170*** (0.0004)
y2005	-0.0057* (0.0028)	0.0001 (0.0036)	-0.0061* (0.0031)	0.0018 (0.0100)	-0.0085* (0.0038)
y2006	-0.0045 (0.0026)	0.0028 (0.0033)	-0.0063* (0.0030)	-0.0051 (0.0100)	-0.0074* (0.0037)
y2007	-0.0010 (0.0026)	0.0045 (0.0032)	-0.0017 (0.0030)	0.0097 (0.0096)	-0.0032 (0.0036)
y2008	-0.0006 (0.0026)	0.0067* (0.0031)	-0.0019 (0.0029)	0.0040 (0.0096)	-0.0043 (0.0036)
Constant	0.0048 (0.0069)	0.6164*** (0.0159)	0.0151 (0.0084)	0.2487*** (0.0296)	0.0564*** (0.0129)
Observations	301,182	46,223	254,959	22,582	176,282
R <sup>2</sup>	0.3491	0.1128	0.3355	0.3382	0.3408
Adj. R <sup>2</sup>	0.349	0.113	0.335	0.338	0.341
Mean	0.698	0.960	0.651	0.688	0.602
SD	0.459	0.195	0.477	0.463	0.489

Notes: Dependent variable: GoodEnglish. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

Source: US Bureau of the Census, American Community Survey, PUMS, 2005–2009

**Table AIX.**  
Analysis of English  
language proficiency  
among foreign-born  
adult females by  
origin country colonial  
heritage: protestant  
missionary only, with  
interaction variables  
and year fixed effects



**Table AX.**  
Analysis of earnings  
among foreign-born  
adult males, by  
origin country  
colonial heritage

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Schooling	0.0752*** (0.0008)	0.1103*** (0.0021)	0.0631*** (0.0010)	0.0434*** (0.0032)	0.0133*** (0.0019)
Language	0.1893*** (0.0034)	0.2203*** (0.0308)	0.1888*** (0.0304)	0.1387*** (0.0159)	0.1779*** (0.0036)
Married spouse present	0.1808*** (0.0029)	0.2573*** (0.0091)	0.1591*** (0.0030)	0.1630*** (0.0125)	0.1561*** (0.0033)
Experience	0.0110*** (0.0005)	0.0019 (0.0017)	0.0151*** (0.0006)	0.0037 (0.0023)	0.0138*** (0.0006)
Experience squared	-0.0002*** (0.0000)	-0.0001** (0.0000)	-0.0002*** (0.0000)	-0.0001* (0.0000)	-0.0002*** (0.0000)
South	-0.0444*** (0.0028)	-0.0922*** (0.0080)	-0.0377*** (0.0030)	-0.0044 (0.0120)	-0.0459*** (0.0032)
Year since migration	0.0139*** (0.0005)	0.0219*** (0.0013)	0.0169*** (0.0005)	0.0249*** (0.0028)	0.0156*** (0.0007)
YSM squared	-0.0001*** (0.0000)	-0.0003*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0001)	-0.0001*** (0.0000)
Ln weeks worked	0.9866*** (0.0053)	1.0745*** (0.0156)	0.9694*** (0.0056)	1.0177*** (0.0211)	0.9356*** (0.0063)
Catholic missionary	0.2020*** (0.0066)	0.0032 (0.0100)	0.1740*** (0.0067)	-0.2677*** (0.0766)	-0.0135 (0.0096)
Catholic x Schooling	-0.0196*** (0.0005)	-0.0010 (0.0007)	-0.0162*** (0.0005)	0.0156** (0.0049)	0.0035*** (0.0008)
Catholic x YSM	0.0004** (0.0001)	0.0002 (0.0002)	-0.0007*** (0.0002)	0.0051* (0.0021)	-0.0004 (0.0002)
Protestant missionary	-0.2812*** (0.0167)	0.0884*** (0.0220)	-0.3015*** (0.0324)	-0.0505 (0.0851)	-0.6503*** (0.0538)
Protestant x Schooling	0.0275*** (0.0012)	-0.0053*** (0.0015)	0.0390*** (0.0021)	0.0173** (0.0053)	0.0649*** (0.0041)
Protestant x YSM	-0.0013*** (0.0003)	-0.0009* (0.0004)	-0.0003*** (0.0006)	-0.0065*** (0.0019)	-0.0034** (0.0011)
GDP origin year migrate	-0.0031*** (0.0004)	0.0001 (0.0011)	-0.0003 (0.0004)	0.0047 (0.0097)	-0.0117*** (0.0005)
y2005	0.0690*** (0.0044)	0.0342*** (0.0127)	0.0781*** (0.0046)	0.0692*** (0.0174)	0.0809*** (0.0050)
y2006	0.0692*** (0.0041)	0.0470*** (0.0120)	0.0771*** (0.0043)	0.0713*** (0.0171)	0.0814*** (0.0047)
y2007	0.0797*** (0.0041)	0.0562*** (0.0120)	0.0855*** (0.0043)	0.0611*** (0.0169)	0.0909*** (0.0046)
y2008	0.0425*** (0.0041)	0.0441*** (0.0121)	0.0429*** (0.0043)	0.0242 (0.0165)	0.0517*** (0.0047)
Constant	5.0539*** (0.0244)	4.3047*** (0.0724)	5.1241*** (0.0265)	5.2858*** (0.1009)	5.8636*** (0.0356)
Observations	388,279	59,507	328,772	26,050	243,080
R <sup>2</sup>	0.4174	0.4025	0.4038	0.3862	0.3846
Adj. R <sup>2</sup>	0.417	0.402	0.404	0.386	0.385
Mean	10.27	10.69	10.20	10.43	10.10
SD	0.895	0.987	0.859	0.921	0.790

**Notes:** Dependent variable: natural logarithm of earnings, in 2009 dollars. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009. ACS 2005–09, with interaction variables and year fixed effects

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Schooling	0.0719*** (0.0009)	0.1011*** (0.0024)	0.0639*** (0.0012)	0.0194*** (0.0030)	0.0471*** (0.0022)
Language	0.2295*** (0.0043)	0.2072*** (0.0258)	0.2263*** (0.0044)	0.1501*** (0.0160)	0.2401*** (0.0049)
Married Spouse Present	0.0251*** (0.0034)	0.0056 (0.0091)	0.0229*** (0.0037)	0.0403*** (0.0139)	0.0269*** (0.0042)
Experience	-0.0006 (0.0006)	-0.0068*** (0.0017)	0.0021** (0.0007)	-0.0132*** (0.0023)	0.0047*** (0.0008)
Experience squared	0.0000 (0.0000)	0.0001*** (0.0000)	-0.0000*** (0.0000)	0.0002*** (0.0000)	-0.0001*** (0.0000)
South	-0.0875*** (0.0035)	-0.0621*** (0.0088)	-0.0902*** (0.0038)	-0.0378*** (0.0132)	-0.1069*** (0.0043)
Year since migration	0.0170*** (0.0005)	0.0203*** (0.0015)	0.0169*** (0.0006)	0.0271*** (0.0030)	0.0139*** (0.0008)
YSM squared	-0.0002*** (0.0000)	-0.0003*** (0.0000)	-0.0002*** (0.0000)	-0.0004*** (0.0001)	-0.0002*** (0.0000)
Ln weeks worked	1.0659*** (0.0041)	1.1353*** (0.0125)	1.0544*** (0.0044)	1.0441*** (0.0184)	1.0331*** (0.0049)
Kids	-0.0424*** (0.0037)	0.0091 (0.0098)	-0.0517*** (0.0040)	-0.0234 (0.0143)	-0.0566*** (0.0045)
Catholic missionary	0.1055*** (0.0069)	0.0095 (0.0100)	0.0977*** (0.0081)	-0.6073*** (0.0725)	0.0687*** (0.0125)
Catholic x schooling	-0.0116*** (0.0005)	-0.0015* (0.0007)	-0.0126*** (0.0006)	0.0379*** (0.0045)	-0.0077*** (0.0009)
Catholic x YSM	0.0003* (0.0001)	0.0000 (0.0002)	0.0004* (0.0002)	0.0092*** (0.0022)	0.0003 (0.0003)
Protestant missionary	-0.2635*** (0.0165)	-0.0305 (0.0216)	-0.5504*** (0.0421)	-0.1252 (0.1091)	-0.7760*** (0.0632)
Protestant x schooling	0.0245*** (0.0011)	0.0027 (0.0014)	0.0493*** (0.0028)	0.0109 (0.0068)	0.0652*** (0.0045)
Protestant x YSM	-0.0005* (0.0002)	-0.0003 (0.0003)	-0.0025*** (0.0007)	-0.0081*** (0.0021)	-0.0004 (0.0011)
GDP origin year migrate	-0.0111*** (0.0004)	0.0012 (0.0011)	-0.0115*** (0.0005)	0.0222 (0.0139)	-0.0208*** (0.0007)
y2005	0.0524*** (0.0052)	0.0386** (0.0140)	0.0560*** (0.0056)	0.0741*** (0.0201)	0.0562*** (0.0064)
y2006	0.0423*** (0.0050)	0.0366** (0.0129)	0.0435*** (0.0053)	0.0546** (0.0197)	0.0497*** (0.0061)
y2007	0.0719*** (0.0049)	0.0951*** (0.0130)	0.0684*** (0.0053)	0.0938*** (0.0187)	0.0642*** (0.0060)
y2008	0.0241*** (0.0049)	0.0296* (0.0128)	0.0237*** (0.0052)	0.0644*** (0.0182)	0.0221*** (0.0059)
Constant	4.7450*** (0.0219)	4.1149*** (0.0643)	4.8887*** (0.0254)	5.5112*** (0.0912)	5.1653*** (0.0372)
Observations	301,182	46,223	254,959	22,582	176,282
R <sup>2</sup>	0.4878	0.4399	0.4878	0.3936	0.5063
Adj. R <sup>2</sup>	0.488	0.440	0.488	0.393	0.506
Mean	9.889	10.24	9.827	10.01	9.722
SD	1.027	1.023	1.015	0.972	0.983

**Notes:** Dependent variable: natural logarithm of earnings, in 2009 dollars. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009; ACS 2005-09, with interaction variables and year fixed effects

## Missionaries on the English language proficiency

**Table AXI.**  
Analysis of earnings among foreign-born adult females, by origin country colonial heritage

**Table AXII.**  
Analysis of earnings  
among foreign-born  
adult males, by origin  
country colonial  
heritage: catholic  
missionaries only,  
with interaction  
variables and year  
fixed effects

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Schooling	0.0816*** (0.0008)	0.1070*** (0.0017)	0.0710*** (0.0008)	0.0376*** (0.0028)	0.0327*** (0.0014)
Language	0.1957*** (0.0033)	0.2299*** (0.0300)	0.1947*** (0.0034)	0.1441*** (0.0157)	0.1791*** (0.0036)
Married spouse present	0.1821*** (0.0029)	0.2581*** (0.0091)	0.1607*** (0.0030)	0.1642*** (0.0125)	0.1575*** (0.0033)
Experience	0.0106*** (0.0005)	0.0017 (0.0016)	0.0149*** (0.0006)	0.0035 (0.0023)	0.0136*** (0.0006)
Experience squared	-0.0002*** (0.0000)	-0.0001** (0.0000)	-0.0002*** (0.0000)	-0.0001* (0.0000)	-0.0002*** (0.0000)
South	-0.0424*** (0.0028)	-0.0926*** (0.0080)	-0.0385*** (0.0030)	-0.0024 (0.0120)	-0.0446*** (0.0032)
Year since migration	0.0138*** (0.0005)	0.0216*** (0.0013)	0.0162*** (0.0005)	0.0287*** (0.0025)	0.0146*** (0.0007)
YSM squared	-0.0001*** (0.0000)	-0.0003*** (0.0000)	-0.0001*** (0.0000)	-0.0003*** (0.0001)	-0.0001*** (0.0000)
Ln weeks worked	0.9863*** (0.0053)	1.0736*** (0.0156)	0.9690*** (0.0056)	1.0175*** (0.0211)	0.9356*** (0.0063)
Catholic missionary	0.1834*** (0.0068)	0.0236** (0.0088)	0.1555*** (0.0066)	-0.3133*** (0.0521)	0.0150 (0.0091)
Catholic x schooling	-0.0178*** (0.0005)	-0.0022*** (0.0006)	-0.0145*** (0.0005)	0.0287*** (0.0032)	0.0014* (0.0007)
Catholic x YSM	0.0005*** (0.0001)	-0.0001 (0.0002)	-0.0008*** (0.0002)	0.0000 (0.0011)	-0.0003 (0.0002)
GDP origin year migrate	-0.0015*** (0.0004)	-0.0002 (0.0010)	0.0021*** (0.0004)	0.0200** (0.0074)	-0.0120*** (0.0005)
y2005	0.0702*** (0.0044)	0.0345** (0.0127)	0.0799*** (0.0046)	0.0688*** (0.0173)	0.0815*** (0.0050)
y2006	0.0695*** (0.0041)	0.0469*** (0.0120)	0.0778*** (0.0043)	0.0702*** (0.0172)	0.0818*** (0.0047)
y2007	0.0801*** (0.0041)	0.0562*** (0.0120)	0.0867*** (0.0043)	0.0606*** (0.0169)	0.0915*** (0.0047)
y2008	0.0429*** (0.0041)	0.0442*** (0.0121)	0.0438*** (0.0043)	0.0238 (0.0165)	0.0520*** (0.0047)
Constant	4.9781*** (0.0242)	4.3562*** (0.0714)	5.0466*** (0.0255)	5.2707*** (0.0965)	5.6597*** (0.0308)
Observations	388,279	59,507	328,772	26,050	243,080
R <sup>2</sup>	0.4137	0.4022	0.4001	0.3851	0.3832
Adj. R <sup>2</sup>	0.414	0.402	0.400	0.385	0.383
Mean	10.27	10.69	10.20	10.43	10.10
SD	0.895	0.987	0.859	0.921	0.790

**Notes:** Dependent variable: natural logarithm of earnings, in 2009 dollars. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Schooling	0.0773*** (0.0009)	0.1032*** (0.0020)	0.0737*** (0.0010)	0.0205*** (0.0029)	0.0679*** (0.0017)
Language	0.2356*** (0.0042)	0.2019*** (0.0253)	0.2289*** (0.0044)	0.1492*** (0.0157)	0.2405*** (0.0049)
Married spouse present	0.0228*** (0.0034)	0.0049 (0.0091)	0.0243*** (0.0037)	0.0396** (0.0138)	0.0280*** (0.0042)
Experience	-0.0008 (0.0006)	-0.0065*** (0.0017)	0.0017* (0.0007)	-0.0136*** (0.0024)	0.0047*** (0.0008)
Experience squared	0.0000 (0.0000)	0.0001*** (0.0000)	-0.0000* (0.0000)	0.0002*** (0.0000)	-0.0001*** (0.0000)
South	-0.0842*** (0.0035)	-0.0618*** (0.0088)	-0.0912*** (0.0038)	-0.0338** (0.0132)	-0.1053*** (0.0043)
Year since migration	0.0172*** (0.0005)	0.0203*** (0.0015)	0.0165*** (0.0006)	0.0282*** (0.0028)	0.0135*** (0.0008)
YSM squared	-0.0002*** (0.0000)	-0.0003*** (0.0000)	-0.0002*** (0.0000)	-0.0004*** (0.0001)	-0.0002*** (0.0000)
Ln weeks worked	1.0665*** (0.0041)	1.1355*** (0.0125)	1.0550*** (0.0044)	1.0448*** (0.0184)	1.0333*** (0.0049)
Kids	-0.0421*** (0.0037)	0.0083 (0.0098)	-0.0509*** (0.0040)	-0.0004*** (0.0001)	-0.0564*** (0.0045)
Catholic missionary	0.0804*** (0.0072)	0.0033 (0.0099)	0.0809*** (0.0082)	-0.5273*** (0.0598)	0.1037*** (0.0121)
Catholic x Schooling	-0.0092*** (0.0005)	-0.0009 (0.0007)	-0.0110*** (0.0006)	0.0400*** (0.0039)	-0.0102*** (0.0009)
Catholic x YSM	0.0004** (0.0001)	-0.0001 (0.0002)	0.0003 (0.0002)	0.0013 (0.0014)	0.0004 (0.0003)
GDP origin year migrate	-0.0094*** (0.0004)	0.0016 (0.0011)	-0.0100*** (0.0005)	-0.0158 (0.0103)	-0.0211*** (0.0007)
y2005	0.0535*** (0.0052)	0.0387*** (0.0140)	0.0570*** (0.0056)	0.0674*** (0.0199)	0.0564*** (0.0064)
y2006	0.0425*** (0.0050)	0.0365*** (0.0129)	0.0445*** (0.0054)	0.0507*** (0.0196)	0.0502*** (0.0061)
y2007	0.0723*** (0.0050)	0.0952*** (0.0130)	0.0690*** (0.0053)	0.0917*** (0.0187)	0.0641*** (0.0061)
y2008	0.0247*** (0.0049)	0.0297* (0.0128)	0.0245*** (0.0052)	0.0648*** (0.0183)	0.0220*** (0.0060)
Constant	4.6759*** (0.0218)	4.0884*** (0.0615)	4.7690*** (0.0240)	5.5306*** (0.0899)	4.9162*** (0.0312)
Observations	301,182	46,223	254,959	22,582	176,282
R <sup>2</sup>	0.4847	0.4399	0.4860	0.3921	0.5051
Adj. R <sup>2</sup>	0.485	0.440	0.486	0.392	0.505
Mean	9.889	10.24	9.827	10.01	9.722
SD	1.027	1.023	1.015	0.972	0.983

**Notes:** Dependent variable: natural logarithm of earnings, in 2009 dollars. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

## Missionaries on the English language proficiency

**Table AXIII.** Analysis of earnings among foreign-born adult females, by origin country colonial heritage: catholic missionaries only, with interaction variables and year fixed effects

**Table AXIV.**  
Analysis of earnings  
among foreign-born  
adult males, by origin  
country colonial  
heritage: protestant  
missionaries only,  
with interaction  
variables and year  
fixed effects

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Schooling	0.0529*** (0.0005)	0.1104*** (0.0021)	0.0425*** (0.0006)	0.0523*** (0.0020)	0.0203*** (0.0010)
Language	0.1985*** (0.0034)	0.2226*** (0.0306)	0.1925*** (0.0034)	0.1406*** (0.0156)	0.1782*** (0.0036)
Married spouse present	0.1928*** (0.0029)	0.2569*** (0.0091)	0.1645*** (0.0030)	0.1630*** (0.0125)	0.1560*** (0.0033)
Experience	0.0091*** (0.0005)	0.0019 (0.0017)	0.0147*** (0.0006)	0.0032 (0.0022)	0.0139*** (0.0006)
Experience squared	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0001* (0.0000)	-0.0002*** (0.0000)
South	-0.0508*** (0.0028)	-0.0924*** (0.0080)	-0.0451*** (0.0030)	-0.0052 (0.0120)	-0.0446*** (0.0032)
Year since migration	0.0138*** (0.0004)	0.0218*** (0.0013)	0.0157*** (0.0005)	0.0282*** (0.0026)	0.0146*** (0.0005)
YSM squared	-0.0001*** (0.0000)	-0.0003*** (0.0000)	-0.0001*** (0.0000)	-0.0003*** (0.0001)	-0.0001*** (0.0000)
Ln weeks worked	0.9863*** (0.0053)	1.0744*** (0.0156)	0.9684*** (0.0056)	1.0177*** (0.0211)	0.9362*** (0.0063)
Protestant missionary	-0.2404*** (0.0171)	0.0917*** (0.0203)	-0.2799*** (0.0322)	-0.2502*** (0.0628)	-0.6494*** (0.0513)
Protestant x schooling	0.0224*** (0.0012)	-0.0060*** (0.0014)	0.0352*** (0.0021)	0.0294*** (0.0036)	0.0643*** (0.0040)
Protestant x YSM	-0.0016*** (0.0003)	-0.0008** (0.0003)	-0.0037*** (0.0006)	-0.0025* (0.0011)	-0.0030** (0.0011)
GDP origin year migrate	-0.0043*** (0.0003)	-0.0001 (0.0011)	0.0002 (0.0004)	-0.0002 (0.0096)	-0.0105*** (0.0005)
y2005	0.0677*** (0.0044)	0.0342*** (0.0127)	0.0787*** (0.0046)	0.0677*** (0.0174)	0.0814*** (0.0050)
y2006	0.0675*** (0.0041)	0.0470*** (0.0120)	0.0771*** (0.0043)	0.0712*** (0.0171)	0.0816*** (0.0047)
y2007	0.0784*** (0.0041)	0.0561*** (0.0120)	0.0852*** (0.0043)	0.0608*** (0.0169)	0.0911*** (0.0046)
y2008	0.0424*** (0.0041)	0.0441*** (0.0121)	0.0432*** (0.0043)	0.0240 (0.0165)	0.0517*** (0.0047)
Constant	5.3363*** (0.0227)	4.3025*** (0.0724)	5.3637*** (0.0245)	5.1428*** (0.0923)	5.8237*** (0.0292)
Observations	388,279	59,507	328,772	26,050	243,080
R <sup>2</sup>	0.4070	0.4024	0.3972	0.3854	0.3842
Adj. R <sup>2</sup>	0.407	0.402	0.397	0.385	0.384
Mean	10.27	10.69	10.20	10.43	10.10
S D	0.895	0.987	0.859	0.921	0.790

**Notes:** Dependent variable: natural logarithm of earnings, in 2009 dollars. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009. Robust standard errors in parentheses

Variables	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish
Schooling	0.0606*** (0.0006)	0.1012*** (0.0024)	0.0506*** (0.0008)	0.0409*** (0.0021)	0.0323*** (0.0012)
Language	0.2345*** (0.0043)	0.2135*** (0.0256)	0.2307*** (0.0044)	0.1538*** (0.0159)	0.2414*** (0.0049)
Married spouse present	0.0317*** (0.0034)	0.0053 (0.0091)	0.0296*** (0.0037)	0.0425** (0.0139)	0.0277*** (0.0042)
Experience	-0.0019** (0.0006)	-0.0068*** (0.0017)	0.0009 (0.0007)	-0.0143*** (0.0024)	0.0049*** (0.0008)
Experience squared	0.0000*** (0.0000)	0.0001*** (0.0000)	-0.0000 (0.0000)	0.0002*** (0.0000)	-0.0001*** (0.0000)
South	-0.0946*** (0.0035)	-0.0629*** (0.0088)	-0.1029*** (0.0038)	-0.0398** (0.0132)	-0.1120*** (0.0043)
Year since migration	0.0173*** (0.0005)	0.0203*** (0.0015)	0.0176*** (0.0006)	0.0330*** (0.0028)	0.0146*** (0.0007)
YSM squared	-0.0002*** (0.0000)	-0.0003*** (0.0000)	-0.0002*** (0.0000)	-0.0004*** (0.0001)	-0.0002*** (0.0000)
Ln Weeks Worked	1.0650*** (0.0041)	1.1351*** (0.0125)	1.0547*** (0.0044)	1.0437*** (0.0184)	1.0330*** (0.0049)
Kids	-0.0440*** (0.0037)	0.0082 (0.0098)	-0.0572*** (0.0040)	-0.0004*** (0.0001)	-0.0002*** (0.0000)
Protestant missionary	-0.2229*** (0.0163)	-0.0203 (0.0208)	-0.5044*** (0.0418)	-0.5515*** (0.1002)	-0.8401*** (0.0609)
Protestant x schooling	0.0200*** (0.0011)	0.0015 (0.0013)	0.0432*** (0.0028)	-0.0238 (0.0144)	-0.0559*** (0.0045)
Protestant x YSM	-0.0006* (0.0002)	-0.0004 (0.0003)	-0.0024*** (0.0007)	0.0393*** (0.0060)	0.0701*** (0.0044)
GDP origin year migrate	-0.0122*** (0.0004)	0.0003 (0.0011)	-0.0115*** (0.0005)	-0.0013 (0.0013)	-0.0008 (0.0011)
y2005	0.0506*** (0.0052)	0.0384** (0.0140)	0.0554*** (0.0056)	0.0743*** (0.0201)	0.0556*** (0.0064)
y2006	0.0410*** (0.0050)	0.0365** (0.0129)	0.0430*** (0.0054)	0.0544** (0.0198)	0.0494*** (0.0061)
y2007	0.0711*** (0.0050)	0.0952*** (0.0130)	0.0678*** (0.0053)	0.0960*** (0.0188)	0.0640*** (0.0060)
y2008	0.0241*** (0.0049)	0.0299* (0.0128)	0.0240*** (0.0052)	0.0645*** (0.0182)	0.0225*** (0.0059)
Constant	4.8790*** (0.0197)	4.1110*** (0.0642)	4.9992*** (0.0223)	5.1896*** (0.0873)	5.3137*** (0.0277)
Observations	301,182	46,223	254,959	22,582	176,282
R <sup>2</sup>	0.4833	0.4395	0.4832	0.3901	0.5056
Adj. R <sup>2</sup>	0.483	0.439	0.483	0.390	0.506
Mean	9.889	10.24	9.827	10.01	9.722
SD	1.027	1.023	1.015	0.972	0.983

**Notes:** Dependent variable: natural logarithm of earnings, in 2009 dollars. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

## Missionaries on the English language proficiency

**Table AXV.** Analysis of earnings among foreign-born adult females, by origin country colonial heritage: protestant missionaries only, with interaction variables and year fixed effects

**Table AXVI.**  
Analysis of English language proficiency among foreign-born adult males and females by origin country colonial heritage: without interaction variables and with year fixed effects

Variables	(1) All	(2) UK	(3) Male Non-UK	(4) French	(5) Spanish	(6) All	(7) UK	(8) Female Non-UK	(9) French	(10) Spanish
Married spouse present	0.0609*** (0.0018)	0.0036 (0.0025)	0.0628*** (0.0020)	0.0027 (0.0061)	0.0758*** (0.0023)	0.0255*** (0.0019)	-0.0231*** (0.0023)	0.0336*** (0.0021)	-0.0085 (0.0074)	0.0430*** (0.0026)
Age at migration	-0.0066*** (0.0001)	-0.0025*** (0.0002)	-0.0074*** (0.0001)	-0.0108*** (0.0003)	-0.0068*** (0.0001)	-0.0064*** (0.0001)	-0.0019*** (0.0001)	-0.0075*** (0.0001)	-0.0107*** (0.0004)	-0.0071*** (0.0001)
Schooling	0.0431*** (0.0002)	0.0141*** (0.0005)	0.0433*** (0.0002)	0.0340*** (0.0008)	0.0413*** (0.0003)	0.0503*** (0.0002)	0.0158*** (0.0006)	0.0514*** (0.0002)	0.0387*** (0.0008)	0.0516*** (0.0003)
Years since migration	0.0128*** (0.0002)	0.0026*** (0.0004)	0.0155*** (0.0003)	0.0134*** (0.0012)	0.0181*** (0.0003)	0.0091*** (0.0003)	0.0037*** (0.0004)	0.0109*** (0.0003)	0.0158*** (0.0014)	0.0128*** (0.0004)
YSM squared	-0.0002*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0003*** (0.0000)	-0.0003*** (0.0000)	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0002*** (0.0000)
Kids										
Catholic missionary	-0.0288*** (0.0009)	-0.0100*** (0.0012)	-0.0171*** (0.0011)	-0.1561*** (0.0087)	0.0131*** (0.0018)	-0.0255*** (0.0009)	-0.0095*** (0.0010)	-0.0221*** (0.0011)	-0.1386*** (0.0106)	0.0027 (0.0019)
Protestant missionary	0.0988*** (0.0012)	0.0227*** (0.0013)	0.1071*** (0.0028)	0.1480*** (0.0099)	0.0970*** (0.0076)	0.0975*** (0.0011)	0.2221*** (0.0011)	0.1195*** (0.0032)	0.1486*** (0.0131)	0.1098*** (0.0068)
GDP origin year migrate	-0.0082*** (0.0002)	0.0014*** (0.0002)	-0.0061*** (0.0002)	0.0313*** (0.0036)	-0.0140*** (0.0004)	-0.0074*** (0.0002)	0.0023*** (0.0002)	-0.0065*** (0.0002)	0.0384*** (0.0053)	-0.0173*** (0.0004)
y2005	-0.0069** (0.0026)	-0.0022 (0.0034)	-0.0057 (0.0030)	-0.0062 (0.0087)	-0.0073* (0.0036)	-0.0048 (0.0028)	0.0001 (0.0036)	-0.0058 (0.0031)	0.0020 (0.0099)	-0.0086* (0.0038)
y2006	-0.0085*** (0.0025)	0.0002 (0.0030)	-0.0091** (0.0028)	-0.0122 (0.0085)	-0.0093*** (0.0034)	-0.0031 (0.0026)	0.0039 (0.0033)	-0.0061* (0.0030)	-0.0048 (0.0099)	-0.0075* (0.0037)
y2007	-0.0057* (0.0025)	0.0008 (0.0033)	-0.0059* (0.0028)	-0.0033 (0.0082)	-0.0064 (0.0033)	0.0000 (0.0026)	0.0049 (0.0032)	-0.0012 (0.0030)	0.0107 (0.0095)	-0.0031 (0.0036)
y2008	-0.0043 (0.0025)	-0.0073* (0.0033)	-0.0045 (0.0028)	-0.0029 (0.0081)	-0.0051 (0.0033)	-0.0004 (0.0026)	0.0066* (0.0031)	-0.0019 (0.0029)	0.0047 (0.0095)	-0.0042 (0.0036)
Constant	0.1949*** (0.0055)	0.7753*** (0.0101)	0.1299*** (0.0063)	0.4672*** (0.0239)	0.1029*** (0.0081)	0.1390*** (0.0065)	0.7239*** (0.0122)	0.1031*** (0.0074)	0.2915*** (0.0250)	0.0941*** (0.0097)
Observations	388,279	59,507	328,772	26,050	243,080	301,182	46,223	25,4959	22,582	176,282
R <sup>2</sup>	0.3120	0.0872	0.2874	0.2874	0.2645	0.3445	0.1022	0.3357	0.3419	0.3399
Adj.	0.312	0.0870	0.287	0.287	0.264	0.344	0.102	0.336	0.341	0.340
Mean	0.658	0.964	0.607	0.777	0.553	0.698	0.960	0.651	0.688	0.602
SD	0.474	0.187	0.488	0.416	0.497	0.459	0.195	0.477	0.463	0.489

**Notes:** Dependent variable: GoodEnglish. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

Variables	Male			Female						
	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish	(6) All	(7) UK	(8) Non-UK	(9) French	(10) Spanish
Schooling	0.0558*** (0.0004)	0.1058*** (0.0017)	0.0480*** (0.0004)	0.0568*** (0.0019)	0.0351*** (0.0005)	0.0641*** (0.0005)	0.1026*** (0.0019)	0.0576*** (0.0006)	0.0440*** (0.0021)	0.0496*** (0.0007)
Language	0.1867*** (0.0034)	0.2296*** (0.0302)	0.1891*** (0.0034)	0.1391*** (0.0158)	0.1783*** (0.0036)	0.2172*** (0.0043)	0.2012*** (0.0255)	0.2231*** (0.0044)	0.1518*** (0.0159)	0.2411*** (0.0049)
Married spouse present	0.1919*** (0.0029)	0.2581*** (0.0091)	0.1640*** (0.0030)	0.1633*** (0.0125)	0.1580*** (0.0033)	0.0287*** (0.0034)	0.0047 (0.0091)	0.0254*** (0.0037)	0.0429*** (0.0140)	0.0306*** (0.0042)
Experience	0.0092*** (0.0005)	0.0016 (0.0016)	0.0145*** (0.0006)	0.0022 (0.0023)	0.0135*** (0.0006)	-0.0017** (0.0006)	-0.0065*** (0.0017)	0.0013 (0.0007)	-0.0151*** (0.0024)	0.0048*** (0.0008)
Experience squared	-0.0001*** (0.0000)	-0.0001** (0.0000)	-0.0002*** (0.0000)	-0.0001 (0.0000)	-0.0002*** (0.0000)	0.0000* (0.0000)	0.0001*** (0.0000)	-0.0000* (0.0000)	0.0002*** (0.0000)	-0.0001*** (0.0000)
South	-0.0466*** (0.0028)	-0.0929*** (0.0080)	-0.0407*** (0.0030)	-0.0024 (0.0120)	-0.0446*** (0.0032)	-0.0877*** (0.0035)	-0.0619*** (0.0088)	-0.0927*** (0.0038)	-0.0371** (0.0133)	-0.1090*** (0.0043)
Year since migration	0.0144*** (0.0004)	0.0217*** (0.0013)	0.0157*** (0.0004)	0.0281*** (0.0026)	0.0143*** (0.0005)	0.0177*** (0.0005)	0.0203*** (0.0015)	0.0173*** (0.0005)	0.0336*** (0.0028)	0.0144*** (0.0006)
YSM squared	-0.0001*** (0.0000)	-0.0003*** (0.0000)	-0.0001*** (0.0000)	-0.0003*** (0.0001)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0003*** (0.0000)	-0.0002*** (0.0000)	-0.0004*** (0.0001)	-0.0002*** (0.0000)
Ln weeks worked	0.9888*** (0.0054)	1.0736*** (0.0156)	0.9702*** (0.0056)	1.0179*** (0.0211)	0.9359*** (0.0063)	1.0655*** (0.0041)	1.1355*** (0.0125)	1.0544*** (0.0044)	1.0451*** (0.0184)	1.0334*** (0.0049)
Kids										
Catholic missionary	-0.0503*** (0.0015)	-0.0061* (0.0024)	-0.0529*** (0.0019)	0.0363 (0.0187)	0.0287*** (0.0028)	-0.0435*** (0.0016)	-0.0102*** (0.0021)	-0.0636*** (0.0021)	0.0332 (0.0215)	-0.0210*** (0.0032)
Protestant missionary	0.0526*** (0.0030)	-0.0047 (0.0047)	0.1571*** (0.0072)	0.1048*** (0.0248)	0.1169*** (0.0150)	0.0582*** (0.0027)	-0.0005 (0.0039)	0.0813*** (0.0090)	-0.0449 (0.0332)	0.0702*** (0.0148)
GDP origin year migrate	-0.0003 (0.0004)	0.0001 (0.0011)	0.0033*** (0.0004)	0.0009 (0.0095)	-0.0111*** (0.0005)	-0.0093*** (0.0004)	0.0015 (0.0011)	-0.0088*** (0.0005)	0.0145 (0.0149)	-0.0196*** (0.0007)
y2005	0.0698*** (0.0044)	0.0343** (0.0127)	0.0810*** (0.0046)	0.0651*** (0.0174)	0.0819*** (0.0050)	0.0515*** (0.0052)	0.0387** (0.0140)	0.0563*** (0.0056)	0.0747*** (0.0202)	0.0563*** (0.0064)
y2006	0.0687*** (0.0041)	0.0470*** (0.0120)	0.0784*** (0.0043)	0.0680*** (0.0172)	0.0821*** (0.0047)	0.0410*** (0.0050)	0.0365** (0.0129)	0.0437*** (0.0054)	0.0549** (0.0199)	0.0501*** (0.0061)
y2007	0.0797*** (0.0056)	0.0563*** (0.0056)	0.0866*** (0.0056)	0.0592*** (0.0056)	0.0918*** (0.0056)	0.0715*** (0.0056)	0.0953*** (0.0056)	0.0687*** (0.0056)	0.0954*** (0.0056)	0.0643*** (0.0056)

(continued)

Missionaries on the English language proficiency

**Table AXVII.**  
Analysis of earnings among foreign-born adult females, by origin country colonial heritage: without interaction variables and with year fixed effects



Variables	Male			Female						
	(1) All	(2) UK	(3) Non-UK	(4) French	(5) Spanish	(6) All	(7) UK	(8) Non-UK	(9) French	(10) Spanish
y <sub>2008</sub>	(0.0041) 0.0425***	(0.0120) 0.0440***	(0.0043) 0.0438***	(0.0169) 0.0228	(0.0047) 0.0521***	(0.0050) 0.0240***	(0.0130) 0.0297*	(0.0053) 0.0242***	(0.0189) 0.0656***	(0.0061) 0.0224***
Constant	(0.0041) 5.3279***	(0.0121) 4.3774***	(0.0043) 5.3422***	(0.0166) 5.0805***	(0.0047) 5.6011***	(0.0049) 4.8660***	(0.0128) 4.0986***	(0.0052) 4.9690***	(0.0184) 5.1240***	(0.0060) 5.1093***
R <sup>2</sup>	388,279 0.4084	(0.0709) 59,507	(0.0236) 328,772	(0.0925) 26,050	(0.0271) 243,080	(0.0193) 301,182	(0.0608) 46,223	(0.0207) 254,959	(0.0892) 22,582	(0.0243) 176,282
Adj. R <sup>2</sup>	10.27	10.69	0.398	0.382	0.383	0.484	0.440	0.485	0.387	0.506
Mean	0.895	0.987	0.859	0.921	0.790	0.989	10.24	9.827	10.01	9.722
SD						1.027	1.023	1.015	0.972	0.983

**Notes:** Dependent variable: natural logarithm of earnings, in 2009 dollars. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

Missionaries  
on the English  
language  
proficiency

Variables	(1) Male	(2) Female
Married spouse present	0.0950*** (0.0036)	0.0709*** (0.0034)
Age at migration	-0.0072*** (0.0002)	-0.0063*** (0.0002)
Schooling	0.0459*** (0.0012)	0.0617*** (0.0012)
Years since migration	0.0252*** (0.0005)	0.0184*** (0.0005)
YSM squared	-0.0003*** (0.0000)	-0.0002*** (0.0000)
Catholic missionary	0.0102 (0.0064)	0.0306*** (0.0076)
Catholic × Schooling	-0.0020*** (0.0005)	-0.0047*** (0.0005)
Catholic × YSM	0.0003* (0.0001)	0.0010*** (0.0001)
Protestant missionary	-0.1233** (0.0376)	0.1382*** (0.0394)
Protestant × Schooling	0.0038 (0.0025)	-0.0052* (0.0026)
Protestant × YSM	0.0021*** (0.0006)	-0.0010 (0.0005)
GDP origin year migrate	0.0127*** (0.0012)	0.0036** (0.0012)
y2005	0.0064 (0.0055)	0.0014 (0.0051)
y2006	0.0033 (0.0052)	-0.0055 (0.0049)
y2007	0.0065 (0.0051)	-0.0056 (0.0049)
y2008	0.0045 (0.0051)	0.0007 (0.0048)
Kids		-0.0269*** (0.0035)
Constant	0.0588** (0.0183)	-0.0701*** (0.0202)
Observations	86,984	87,968
R <sup>2</sup>	0.3028	0.3010
Adj. R <sup>2</sup>	0.303	0.301
Mean	0.688	0.736
SD	0.463	0.441

**Table AXVIII.**  
Analysis of English  
language proficiency  
among foreign-born  
adult males and  
females from former  
Spanish colonies  
excluding Mexican  
immigrants: with  
interaction variables  
and with year  
fixed effects

**Notes:** Dependent variable: GoodEnglish. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses.  
\* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

Variables	(1) Male	(2) Female	(3) Male	(4) Female
Schooling	0.0250*** (0.0021)	0.0599*** (0.0024)	0.0445*** (0.0009)	0.0654*** (0.0010)
Language	0.1857*** (0.0071)	0.2747*** (0.0078)	0.1853*** (0.0071)	0.2755*** (0.0078)
Married spouse present	0.1724*** (0.0058)	0.0390*** (0.0061)	0.1735*** (0.0058)	0.0393*** (0.0061)
Experience	0.0160*** (0.0012)	0.0030* (0.0012)	0.0158*** (0.0012)	0.0031* (0.0012)
Experience squared	-0.0003*** (0.0000)	-0.0001** (0.0000)	-0.0003*** (0.0000)	-0.0001** (0.0000)
South	-0.0097 (0.0058)	-0.0782*** (0.0063)	-0.0036 (0.0057)	-0.0780*** (0.0063)
Year since migration	0.0157*** (0.0010)	0.0173*** (0.0011)	0.0153*** (0.0009)	0.0182*** (0.0010)
YSM squared	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)
Ln weeks worked	0.9675*** (0.0111)	1.0624*** (0.0086)	0.9682*** (0.0111)	1.0631*** (0.0086)
Kids		-0.0516*** (0.0066)		-0.0516*** (0.0066)
Catholic missionaries	-0.0576*** (0.0102)	-0.0274* (0.0133)	0.0120*** (0.0030)	-0.0297*** (0.0034)
Catholic × schooling	0.0053*** (0.0008)	-0.0015 (0.0009)		
Catholic × YSM	0.0000 (0.0003)	0.0007** (0.0003)		
Protestant missionary	-0.4489*** (0.0624)	-0.3625*** (0.0702)	-0.0018 (0.0174)	-0.0087 (0.0164)
Protestant × schooling	0.0365*** (0.0045)	0.0265*** (0.0048)		
Protestant × YSM	-0.0020 (0.0012)	-0.0004 (0.0013)		
GDP origin year migrate	0.0060** (0.0018)	-0.0081*** (0.0020)	0.0044* (0.0017)	-0.0110*** (0.0019)
y2005	0.0857*** (0.0088)	0.0509*** (0.0094)	0.0859*** (0.0088)	0.0500*** (0.0094)
y2006	0.0780*** (0.0083)	0.0537*** (0.0089)	0.0781*** (0.0083)	0.0532*** (0.0089)
y2007	0.1011*** (0.0083)	0.0600*** (0.0089)	0.1020*** (0.0083)	0.0595*** (0.0089)
y2008	0.0547*** (0.0082)	0.0180* (0.0086)	0.0549*** (0.0082)	0.0180* (0.0086)
Constant	5.5815*** (0.0520)	4.8572*** (0.0478)	5.3401*** (0.0461)	4.7616*** (0.0381)
Observations	86,984	87,968	86,984	87,968
R <sup>2</sup>	0.3906	0.4647	0.3894	0.4643
Adj. R <sup>2</sup>	0.390	0.465	0.389	0.464
Mean	10.25	9.955	10.25	9.955
SD	0.845	0.978	0.845	0.978

**Table AXIX.**  
Analysis of earnings among foreign-born adult males and females from former Spanish colonies excluding Mexican immigrants: with interaction variables and with year fixed effects

**Notes:** Dependent variable: natural logarithm of earnings, in 2009 dollars. Foreign-born persons aged 25–64 years who worked in the prior year. 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

Variables	Without LD		With LD	
	(1) Male	(2) Female	(3) Male	(4) Female
Married spouse present	0.0579*** (0.0018)	0.0189*** (0.0018)	0.0584*** (0.0018)	0.0198*** (0.0018)
Age at migration	-0.0067*** (0.0001)	-0.0062*** (0.0001)	-0.0067*** (0.0001)	-0.0062*** (0.0001)
Schooling	0.0473*** (0.0004)	0.0511*** (0.0005)	0.0478*** (0.0004)	0.0514*** (0.0005)
YSM	0.0106*** (0.0002)	0.0085*** (0.0003)	0.0106*** (0.0002)	0.0086*** (0.0003)
YSMSQ	-0.0002*** (0.0000)	-0.0001*** (0.0000)	-0.0002*** (0.0000)	-0.0001*** (0.0000)
Catholic missionary	-0.0633*** (0.0037)	-0.0991*** (0.0049)	-0.0650*** (0.0037)	-0.1018*** (0.0051)
Catholic missionary x schooling	-0.0007** (0.0002)	0.0033*** (0.0003)	-0.0008*** (0.0002)	0.0033*** (0.0003)
Catholic missionary x YSM	0.0026*** (0.0001)	0.0017*** (0.0001)	0.0026*** (0.0001)	0.0017*** (0.0001)
Protestant missionary	0.3573*** (0.0084)	0.4311*** (0.0084)	0.3557*** (0.0084)	0.4303*** (0.0083)
Protestant missionary x schooling	-0.0121*** (0.0005)	-0.0179*** (0.0005)	-0.0121*** (0.0005)	-0.0180*** (0.0005)
Protestant missionary x YSM	-0.0047*** (0.0001)	-0.0044*** (0.0001)	-0.0047*** (0.0001)	-0.0044*** (0.0001)
GDP origin year migration	-0.0081*** (0.0002)	-0.0070*** (0.0002)	-0.0079*** (0.0002)	-0.0066*** (0.0002)
Linguistic distance				
y2005	-0.0056* (0.0026)	-0.0047 (0.0027)	-0.0546*** (0.0066)	-0.0493*** (0.0065)
y2006	-0.0078** (0.0025)	-0.0040 (0.0026)	-0.0054* (0.0026)	-0.0044 (0.0027)
y2007	-0.0050* (0.0025)	-0.0003 (0.0026)	-0.0077** (0.0025)	-0.0038 (0.0026)
y2008	-0.0040 (0.0025)	-0.0004 (0.0026)	-0.0049* (0.0025)	-0.0002 (0.0026)
Constant	0.1726*** (0.0079)	0.1215*** (0.0094)	0.1943*** (0.0086)	0.1424*** (0.0102)
Marginal effects at the means				
Catholic missionary	-0.0269*** (0.0011)	-0.0267*** (0.0010)	-0.0301*** (0.0012)	-0.0299*** (0.0011975)
Protestant missionary	0.1332*** (0.00197)	0.1253*** (0.0016)	0.1326*** (0.0019)	0.1245*** (0.0016)
Observations	388,279	301,182	388,279	301,182
R <sup>2</sup>	0.3201	0.3552	0.3203	0.3554
Adj. R <sup>2</sup>	0.320	0.355	0.320	0.355
Mean	0.658	0.698	0.658	0.698
SD	0.474	0.459	0.474	0.459

**Notes:** Dependent variable: good english. The measure of Linguistic Distance (LD) is the inverse of the Linguistic Score (LS) in Chiswick and Miller (2005) in Table I. That is, LD = 1/LS from Table I. Where only English is spoken at home, and hence a non-English language is not reported, LS is the mean value of the linguistic score measure for individuals reporting a foreign language from their birthplace. Foreign-born persons aged 25–64 years who worked in the prior year: 2009 is the benchmark for the year fixed effects. Robust standard errors in parentheses

**Source:** US Bureau of the Census, American Community Survey, PUMS, 2005–2009

## Missionaries on the English language proficiency

**Table AXX.**  
Analysis of English language proficiency among foreign-born adult males and females, with and without control for linguistic distance (LD)