Estimating the Education-Earnings Equation Using Geographic Variation

APPENDIX TABLES

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A Descriptive tables

Table 1: Characteristics of the NLSY97 sample

	Mean	Standard Deviation	N
Female	0.49	(0.50)	8984
Black	0.26	(0.44)	8984
Hispanic	0.21	(0.41)	8984
Multiracial	0.01	(0.10)	8984
AFQT	0.45	(0.29)	7093
Mother's Education	12.53	(2.95)	8005
Lived in the South at 17	0.38	(0.49)	8404
Lived in an MSA at 17	0.80	(0.40)	8430

Table 2: Characteristics of the NLSY97 sample: by years

	2007	2008	2009	2010
Log Yearly Income	9.87	9.95	9.98	10.07
	(1.24)	(1.24)	(1.3)	(1.2)
N	5464	5662	5258	5302
Log Hourly Wage	2.53	2.6	2.62	2.54
	(0.67)	(0.69)	(0.71)	(0.82)
N	5430	5487	5218	2547
Years of College	1.87	1.99	2.1	2.21
	(2.17)	(2.29)	(2.4)	(2.51)
N	8984	8984	8984	8984

B IV estimates: Separate estimates for men and women

Table 3: 2SLS first stage estimates for log yearly income for men

	2007	2008	2009	2010
Public 4-Year in County	0.2747	-0.1254	0.0623	-0.1693
v	(0.3942)	(0.4081)	(0.4455)	(0.4555)
$\dots \times$ Mother's education	-0.0165	0.0097	-0.0042	0.0153
	(0.0296)	(0.0306)	(0.0334)	(0.0341)
Endogeneity: F p-value	0.1787	0.2279	0.1577	0.8865
Overidentification: χ^2 p-value	0.1491	0.2617	0.1663	0.0282
First Stage F	28.3589	23.4335	25.6736	23.202
First stage Min. Eigenvalue	29.6119	27.1501	29.2541	27.1245
N	2014	2092	1978	1983
Public 2-Year in County	0.5465	0.3995	0.6915	0.3176
	(0.4476)	(0.4629)	(0.5125)	(0.5185)
$\dots \times$ Mother's education	-0.0249	-0.0134	-0.0401	-0.001
	(0.0339)	(0.0351)	(0.0388)	(0.0392)
Endogeneity: F p -value	0.2292	0.1571	0.2624	0.7068
Overidentification: χ^2 p-value	0.8791	0.6092	0.2456	0.4104
First Stage F	31.3858	27.3265	29.6167	27.8206
First stage Min. Eigenvalue	31.3615	28.9169	30.4929	29.4609
N	2014	2092	1978	1983
Inverse Log Distance to In-State Pub. 2yr	0.1131	0.1189	0.1356	0.1354
	(0.0232)	(0.024)	(0.0267)	(0.0273)
$\dots \times$ Mother's education	-0.0072	-0.0079	-0.0087	-0.0088
	(0.0017)	(0.0017)	(0.0019)	(0.002)
Endogeneity: F p-value	0.381	0.0791	0.3307	0.6779
Overidentification: χ^2 p-value	0.0289	0.37	0.2401	0.2128
First Stage F	40.1653	38.1085	41.1677	36.7617
First stage Min. Eigenvalue	38.4287	35.9646	38.8096	36.0691
N	2014	2092	1978	1983

... table 3 continued

	2007	2008	2009	2010
Distance-Weighted Tuition; In-State Pub. 2yr	-0.2842	-0.2891	-0.2553	-0.4012
, , , , , , , , , , , , , , , , , , ,	(0.1609)	(0.17)	(0.1815)	(0.1838)
$\dots \times$ Mother's education	0.014	0.0144	0.0122	0.0194
	(0.0119)	(0.0126)	(0.0134)	(0.0137)
Endogeneity: F p -value	0.2224	0.2625	0.2579	0.9654
Overidentification: χ^2 p-value	0.9071	0.5059	0.4524	0.2954
First Stage F	32.2666	28.88	29.2999	31.0633
First stage Min. Eigenvalue	32.2175	29.7345	31.2467	31.5621
N	2014	2092	1978	1983
Distance-Weighted Enrollment: In-State Pub. 2yr	0.0361	0.0402	0.0253	0.0396
	(0.0293)	(0.0308)	(0.0345)	(0.0337)
$\dots \times$ Mother's education	-0.002	-0.0021	-0.0011	-0.0019
	(0.0023)	(0.0024)	(0.0026)	(0.0026)
Endogeneity: F p -value	0.2397	0.1639	0.1713	0.9426
Overidentification: χ^2 p-value	0.7764	0.1084	0.2422	0.2597
First Stage F	29.111	25.7379	26.6676	25.4943
First stage Min. Eigenvalue	30.313	28.289	29.8317	28.1796
N	2014	2092	1978	1983
Inverse Log Distance to All Colleges in Country	-0.0042	-0.0068	-0.0071	-0.0064
	(0.0042)	(0.0041)	(0.0047)	(0.0047)
$\dots \times$ Mother's education	0.0004	0.0006	0.0006	0.0005
	(0.0003)	(0.0003)	(0.0003)	(0.0003)
Endogeneity: F p -value	0.285	0.1054	0.2012	0.6827
Overidentification: χ^2 p-value	0.2768	0.0907	0.4283	0.0439
First Stage F	27.8647	26.2992	27.6168	25.3718
First stage Min. Eigenvalue	29.9534	28.4814	30.5796	27.884
N	2014	2092	1978	1983

Table 4: 2SLS second stage estimates for log yearly income for men

	2007	2	2008	80	2009	60	2010	01
	OLS		OLS	IV	STO	ΙΛ	OLS	IV
Years of college	-0.013		0.02		0.031		0.043	
	(0.014)		(0.012)		(0.013)		(0.012)	
Public 4yr in County		-0.1		0.111		-0.067		0.035
		(0.067)		(0.072)		(0.067)		(0.065)
Public 2yr in County		-0.09		0.125		-0.051		0.022
		(0.065)		(0.072)		(0.0)		(0.06)
Inverse Log Distance: In-State Pub. 2yr		-0.065		0.14		-0.029		0.068
		(0.00)		(0.068)		(0.058)		(0.058)
Inverse Log Distance: All Colleges		-0.088		0.105		-0.05		0.042
		(0.064)		(0.072)		(0.068)		(0.065)
Distance-Weighted Tuition: In-State Pub. 2yr		-0.089		0.129		-0.064		0.04
		(0.066)		(0.076)		(0.068)		(0.066)
Distance-Weighted Enroll.: In-State Pub. 2yr		-0.081		0.14		-0.058		0.071
		(0.065)		(0.073)		(0.067)		(0.066)

Table 5: 2SLS first stage estimates for log yearly income for women

	2007	2008	2009	2010
Public 4-Year in County	0.9125	1.0327	0.2745	0.6268
ů	(0.4254)	(0.4599)	(0.4932)	(0.5057)
$\dots \times$ Mother's education	-0.0504	-0.0589	0.0002	-0.0272
	(0.0319)	(0.0344)	(0.0368)	(0.0378)
Endogeneity: F p -value	0.6818	0.4049	0.4508	0.0575
Overidentification: χ^2 p-value	0.5683	0.9418	0.3505	0.1035
First Stage F	16.0989	14.622	11.6688	8.525
First stage Min. Eigenvalue	21.0885	18.264	14.0273	10.3553
N	1878	1934	1766	1794
Public 2-Year in County	1.1768	0.7303	0.8536	0.681
	(0.5187)	(0.5509)	(0.6073)	(0.6092)
$\dots \times$ Mother's education	-0.0904	-0.054	-0.052	-0.045
	(0.0386)	(0.0412)	(0.0452)	(0.0454)
Endogeneity: F p -value	0.7505	0.4785	0.1606	0.8354
Overidentification: χ^2 p-value	0.4294	0.8457	0.4401	0.318
First Stage F	17.7434	13.7921	11.8311	7.8328
First stage Min. Eigenvalue	19.8694	15.7719	13.2056	8.9508
N	1878	1934	1766	1794
Inverse Log Distance to In-State Pub. 2yr	0.1192	0.1378	0.1157	0.1111
	(0.0262)	(0.0278)	(0.0303)	(0.0307)
$\dots \times$ Mother's education	-0.0083	-0.0096	-0.008	-0.0077
	(0.0019)	(0.0021)	(0.0023)	(0.0023)
Endogeneity: F p -value	0.5643	0.3024	0.5379	0.3343
Overidentification: χ^2 p-value	0.3955	0.9605	0.6032	0.4891
First Stage F	21.2623	22.4684	15.5345	11.7694
First stage Min. Eigenvalue	25.1944	23.6942	17.1606	13.0113
N	1878	1934	1766	1794

... table 5 continued

	2007	2008	2009	2010
Distance-Weighted Tuition; In-State Pub. 2yr	-0.2065	-0.2081	-0.142	-0.1908
, , , , , , , , , , , , , , , , , , ,	(0.1594)	(0.1703)	(0.1866)	(0.1851)
$\dots \times$ Mother's education	0.0098	0.0087	0.0073	0.0054
	(0.0122)	(0.0131)	(0.0142)	(0.0141)
Endogeneity: F p-value	0.5331	0.2444	0.2017	0.2646
Overidentification: χ^2 p-value	0.8658	0.2873	0.6645	0.648
First Stage F	15.1518	14.4124	10.6744	9.1166
First stage Min. Eigenvalue	19.4434	16.8395	12.5006	10.3551
N	1878	1934	1766	1794
Distance-Weighted Enrollment: In-State Pub. 2yr	0.0396	0.0176	0.0155	0.0102
	(0.0317)	(0.0333)	(0.0343)	(0.0369)
$\dots \times$ Mother's education	-0.0009	0.0003	0.0009	0.0019
	(0.0024)	(0.0026)	(0.0027)	(0.0028)
Endogeneity: F p -value	0.4174	0.5617	0.3134	0.498
Overidentification: χ^2 p-value	0.9022	0.4356	0.6142	0.5154
First Stage F	16.4646	13.7841	11.6989	9.42
First stage Min. Eigenvalue	21.2007	16.8206	14.153	11.6687
N	1878	1934	1766	1794
Inverse Log Distance to All Colleges in Country	-0.0103	-0.0089	-0.0035	-0.0067
	(0.0044)	(0.0047)	(0.0052)	(0.0053)
$\dots \times$ Mother's education	0.0009	0.0007	0.0004	0.0005
	(0.0003)	(0.0003)	(0.0004)	(0.0004)
Endogeneity: F p-value	0.7759	0.6509	0.3598	0.3945
Overidentification: χ^2 p-value	0.5923	0.3516	0.052	0.3176
First Stage F	15.3605	13.7097	10.6951	7.8929
First stage Min. Eigenvalue	20.3971	16.591	12.5384	9.0672
N	1878	1934	1766	1794

Table 6: 2SLS second stage estimates for log yearly income for women

	2007		2008	80	2009	60	2010	10
	STO	IV	OLS	IV	OLS	VI	OLS	IV
Years of college	0.078		0.094		0.093		0.09	
	(0.015)		(0.014)		(0.014)		(0.012)	
Public 4yr in County		0.05		0.164		0.026		0.232
		(0.07)		(0.084)		(0.088)		(0.079)
Public 2yr in County		0.055		0.159		-0.031		0.107
		(0.071)		(0.091)		(0.091)		(0.076)
Inverse Log Distance: In-State Pub. 2yr		0.113		0.172		0.041		0.151
		(0.061)		(0.076)		(0.084)		(0.063)
Inverse Log Distance: All Colleges		0.034		0.201		-0.029		0.178
		(0.072)		(0.093)		(0.098)		(0.079)
Distance-Weighted Tuition: In-State Pub. 2yr		0.024		0.146		0.007		0.136
		(690.0)		(0.089)		(0.086)		(0.068)
Distance-Weighted Enroll.: In-State Pub. 2yr		0.055		0.136		0.007		0.158
		(0.08)		(0.091)		(0.095)		(0.078)

C IV estimates: Log wages

Table 7: 2SLS first stage estimates for log wages for all subjects

	2007	2008	2009	2010
Public 4-Year in County	0.4626	0.3793	-0.0085	0.1168
	(0.3065)	(0.3144)	(0.3408)	(0.5351)
$\dots \times$ Mother's education	-0.0251	-0.0196	0.0116	0.003
	(0.0231)	(0.0236)	(0.0256)	(0.0404)
Endogeneity: F p -value	0.3237	0.4301	0.2346	0.1659
Overidentification: χ^2 p-value	0.2188	0.0374	0.1158	0.2614
First Stage F	25.7424	31.6257	31.9908	7.1583
First stage Min. Eigenvalue	30.7492	37.9463	37.8001	8.6788
N	3774	3829	3667	1724
Public 2-Year in County	0.7916	0.6259	0.5287	0.7156
	(0.3491)	(0.361)	(0.3981)	(0.6109)
$\dots \times$ Mother's education	-0.0505	-0.0378	-0.0251	-0.0463
	(0.0263)	(0.0272)	(0.03)	(0.0466)
Endogeneity: F p -value	0.3518	0.6324	0.3374	0.2072
Overidentification: χ^2 p-value	0.6597	0.466	0.7565	0.045
First Stage F	29.4985	34.9995	35.979	8.6658
First stage Min. Eigenvalue	31.4406	38.3906	38.9068	8.7579
N	3774	3829	3667	1724
Inverse Log Distance to In-State Pub. 2yr	0.1039	0.1105	0.1094	0.1391
	(0.0165)	(0.0176)	(0.0191)	(0.0283)
$\dots \times$ Mother's education	-0.0065	-0.0072	-0.0075	-0.0082
	(0.0012)	(0.0013)	(0.0014)	(0.002)
Endogeneity: F p -value	0.1875	0.2389	0.0563	0.0461
Overidentification: χ^2 p-value	0.0106	0.0005	0.0207	0.1653
First Stage F	43.1787	48.4553	46.3885	18.5634
First stage Min. Eigenvalue	44.3324	51.1393	48.0496	19.0281
N	3774	3829	3667	1724

... table 7 continued

	2007	2008	2009	2010
Distance-Weighted Tuition; In-State Pub. 2yr	-0.1794	-0.1957	-0.2248	-0.524
, , , , , , , , , , , , , , , , , , ,	(0.118)	(0.1245)	(0.1331)	(0.235)
$\dots \times$ Mother's education	0.0071	0.0102	0.0128	0.0345
	(0.0089)	(0.0094)	(0.01)	(0.0175)
Endogeneity: F p-value	0.3155	0.3631	0.2457	0.1862
Overidentification: χ^2 p-value	0.5363	0.0239	0.4236	0.7154
First Stage F	27.6407	32.2862	33.922	8.4671
First stage Min. Eigenvalue	32.2183	38.4983	38.2231	10.0505
N	3774	3829	3667	1724
Distance-Weighted Enrollment: In-State Pub. 2yr	0.0121	0.0093	0.0028	0.0198
	(0.0211)	(0.0225)	(0.0254)	(0.0381)
$\dots \times$ Mother's education	0.0006	0.0006	0.0009	0.0008
	(0.0017)	(0.0017)	(0.002)	(0.0029)
Endogeneity: F p -value	0.1638	0.4726	0.2335	0.3487
Overidentification: χ^2 p-value	0.135	0.2961	0.5612	0.8707
First Stage F	26.4169	31.7541	32.3722	8.6145
First stage Min. Eigenvalue	32.2537	38.9723	37.9931	10.7334
N	3774	3829	3667	1724
Inverse Log Distance to All Colleges in Country	-0.0075	-0.0056	-0.0056	-0.0084
	(0.0032)	(0.0033)	(0.0035)	(0.0057)
$\dots \times$ Mother's education	0.0006	0.0005	0.0005	0.0007
	(0.0002)	(0.0002)	(0.0003)	(0.0004)
Endogeneity: F p-value	0.349	0.6335	0.2966	0.3031
Overidentification: χ^2 p-value	0.3291	0.1587	0.8402	0.6848
First Stage F	26.7481	32.355	34.3562	7.5828
First stage Min. Eigenvalue	31.4908	38.7849	38.4024	8.9987
N	3774	3829	3667	1724

Table 8: 2SLS second stage estimates for log wages for all subjects

	2007	21	20	2008	2009	60	2010	01
	OLS	2	OLS	IV	OLS	ΛI	OLS	IV
Years of college	0.032		0.04		0.047		0.048	
	(0.000)		(0.005)		(0.000)		(0.000)	
Public 4yr in County		0.066		0.065		0.084		0.135
		(0.035)		(0.031)		(0.031)		(0.065)
Public 2yr in County		0.065		0.055		0.077		0.131
		(0.035)		(0.031)		(0.03)		(0.067)
Inverse Log Distance: In-State Pub. 2yr		0.073		0.074		0.102		0.139
		(0.031)		(0.029)		(0.029)		(0.046)
Inverse Log Distance: All Colleges		0.068		0.068		0.083		0.128
		(0.036)		(0.032)		(0.031)		(0.062)
Distance-Weighted Tuition: In-State Pub. 2yr		0.08		0.062		0.083		0.106
		(0.035)		(0.031)		(0.03)		(0.061)
Distance-Weighted Enroll.: In-State Pub. 2yr		0.065		0.055		0.079		0.113
		(0.035)		(0.032)		(0.03)		(0.064)

Table 9: 2SLS first stage estimates for log wages for men

	2007	2008	2009	2010
Public 4-Year in County	0.0261	0.1919	-0.2968	-0.4264
ů.	(0.4142)	(0.4174)	(0.4582)	(0.6793)
$\dots \times$ Mother's education	0.0034	-0.0124	0.0267	0.0352
	(0.0313)	(0.0315)	(0.0344)	(0.0519)
Endogeneity: F p -value	0.5987	0.486	0.2665	0.3216
Overidentification: χ^2 p-value	0.6652	0.5148	0.883	0.3704
First Stage F	22.4811	29.0142	24.6786	7.6143
First stage Min. Eigenvalue	24.394	31.2126	29.3236	9.7718
N	1950	1960	1888	926
Public 2-Year in County	0.2616	0.4755	0.5796	0.5408
	(0.4491)	(0.4593)	(0.5101)	(0.7585)
$\dots \times$ Mother's education	-0.0055	-0.0207	-0.0234	-0.0279
	(0.0342)	(0.035)	(0.0387)	(0.059)
Endogeneity: F p -value	0.4346	0.505	0.2727	0.2566
Overidentification: χ^2 p-value	0.559	0.4269	0.5756	0.1624
First Stage F	24.7789	32.1798	30.8853	10.6523
First stage Min. Eigenvalue	25.5121	32.7273	31.3323	10.0955
N	1950	1960	1888	926
Inverse Log Distance to In-State Pub. 2yr	0.0813	0.0895	0.0953	0.111
	(0.0211)	(0.0226)	(0.0246)	(0.0332)
$\dots \times$ Mother's education	-0.0049	-0.0057	-0.0062	-0.0056
	(0.0015)	(0.0016)	(0.0018)	(0.0024)
Endogeneity: F p -value	0.3988	0.3355	0.1167	0.0601
Overidentification: χ^2 p-value	0.0996	0.0162	0.1728	0.2717
First Stage F	31.3596	37.3598	34.3152	16.5717
First stage Min. Eigenvalue	30.3396	36.9915	34.633	16.8355
N	1950	1960	1888	926

... table 9 continued

	2007	2008	2009	2010
Distance-Weighted Tuition; In-State Pub. 2yr	-0.2022	-0.2226	-0.3301	-0.4857
	(0.163)	(0.1731)	(0.187)	(0.2908)
$\dots \times$ Mother's education	0.0067	0.0103	0.0178	0.0247
	(0.0122)	(0.0129)	(0.0139)	(0.0218)
Endogeneity: F p -value	0.4315	0.2445	0.2088	0.2225
Overidentification: χ^2 p-value	0.769	0.0853	0.3185	0.8177
First Stage F	26.489	30.2896	28.7519	11.3339
First stage Min. Eigenvalue	27.301	32.9288	31.2805	12.0676
N	1950	1960	1888	926
Distance-Weighted Enrollment: In-State Pub. 2yr	0.0298	0.0285	0.0107	0.0249
	(0.0292)	(0.0305)	(0.0357)	(0.0476)
$\dots \times$ Mother's education	-0.0012	-0.0013	0.0002	-0.0001
	(0.0023)	(0.0024)	(0.0028)	(0.0037)
Endogeneity: F p -value	0.438	0.3673	0.2163	0.306
Overidentification: χ^2 p-value	0.5218	0.4343	0.6325	0.8247
First Stage F	23.958	29.1124	25.4736	8.8832
First stage Min. Eigenvalue	25.4782	31.929	29.6143	10.5688
N	1950	1960	1888	926
Inverse Log Distance to All Colleges in Country	-0.0051	-0.0038	-0.0049	-0.0105
	(0.0044)	(0.0043)	(0.0047)	(0.007)
$\dots \times$ Mother's education	0.0004	0.0004	0.0004	0.0008
	(0.0003)	(0.0003)	(0.0003)	(0.0005)
Endogeneity: F p -value	0.4497	0.3885	0.2228	0.2514
Overidentification: χ^2 p-value	0.2944	0.0205	0.7468	0.6118
First Stage F	23.6732	28.7631	26.3461	9.209
First stage Min. Eigenvalue	24.8612	31.8789	29.6021	10.3955
N	1950	1960	1888	926

Table 10: 2SLS second stage estimates for log wages for men

	2007	2	2008	∞	2009	61	2010	0
	OLS	IV	OLS		OLS	IV	OLS	IV
Years of college	0.022		0.027		0.027		0.044	
	(0.008)		(0.00)		(0.000)		(0.013)	
Public 4yr in County		0.048		0.056		0.073		0.108
		(0.047)		(0.04)		(0.04)		(0.064)
Public 2yr in County		0.058		0.055		0.071		0.12
		(0.046)		(0.04)		(0.039)		(0.066)
Inverse Log Distance: In-State Pub. 2yr		90.0		0.066		0.087		0.144
		(0.045)		(0.04)		(0.038)		(0.054)
Inverse Log Distance: All Colleges		0.058		0.074		0.076		0.121
		(0.045)		(0.04)		(0.038)		(0.064)
Distance-Weighted Tuition: In-State Pub. 2yr		0.059		0.064		0.076		0.11
		(0.047)		(0.04)		(0.039)		(0.065)
Distance-Weighted Enroll.: In-State Pub. 2yr		0.058		0.062		0.075		0.118
		(0.047)		(0.04)		(0.038)		(0.064)

Table 11: 2SLS first stage estimates for log wages for women

	2007	2008	2009	2010
Public 4-Year in County	0.8896	0.5913	0.3596	0.9164
ů	(0.4567)	(0.4755)	(0.5091)	(0.8574)
$\dots \times$ Mother's education	-0.0525	-0.0275	-0.0098	-0.049
	(0.0343)	(0.0356)	(0.0382)	(0.064)
Endogeneity: F p -value	0.0309	0.3112	0.3794	0.182
Overidentification: χ^2 p-value	0.0051	0.0021	0.0177	0.6267
First Stage F	7.7695	8.9105	10.3347	1.7634
First stage Min. Eigenvalue	9.9723	11.0156	11.9694	1.8646
N	1824	1869	1779	798
Public 2-Year in County	1.3463	0.7277	0.4467	0.7459
	(0.5517)	(0.5767)	(0.6341)	(1.0214)
$\dots \times$ Mother's education	-0.0985	-0.0534	-0.0269	-0.0585
	(0.0412)	(0.043)	(0.0474)	(0.0765)
Endogeneity: F p -value	0.5837	0.7352	0.8606	0.8058
Overidentification: χ^2 p-value	0.9083	0.6645	0.9725	0.1729
First Stage F	9.8169	8.604	9.9503	1.1199
First stage Min. Eigenvalue	9.852	9.7722	10.919	1.1259
N	1824	1869	1779	798
Inverse Log Distance to In-State Pub. 2yr	0.1315	0.1316	0.1283	0.1998
	(0.0269)	(0.0284)	(0.0306)	(0.0509)
$\dots \times$ Mother's education	-0.0086	-0.0087	-0.0093	-0.0138
	(0.0021)	(0.0021)	(0.0023)	(0.0037)
Endogeneity: F p -value	0.0768	0.2235	0.1815	0.3524
Overidentification: χ^2 p-value	0.0307	0.0127	0.0552	0.3662
First Stage F	15.574	15.949	16.933	5.6809
First stage Min. Eigenvalue	16.922	17.3293	16.5934	6.1448
N	1824	1869	1779	798

... table 11 continued

	2007	2008	2009	2010
Distance-Weighted Tuition; In-State Pub. 2yr	-0.1365	-0.1412	-0.0982	-0.5099
, , , , , , , , , , , , , , , , , , ,	(0.1731)	(0.1807)	(0.1911)	(0.3902)
$\dots \times$ Mother's education	0.0064	0.0083	0.0071	0.043
	(0.0133)	(0.0138)	(0.0146)	(0.0287)
Endogeneity: F p-value	0.4831	0.8491	0.8204	0.6028
Overidentification: χ^2 p-value	0.5636	0.1161	0.7638	0.8847
First Stage F	6.8384	7.8516	9.7192	1.7888
First stage Min. Eigenvalue	8.4266	9.552	10.7069	1.8219
N	1824	1869	1779	798
Distance-Weighted Enrollment: In-State Pub. 2yr	-0.005	-0.0117	-0.0057	0.0141
	(0.0309)	(0.0333)	(0.0365)	(0.0625)
$\dots \times$ Mother's education	0.0025	0.003	0.0019	0.0016
	(0.0024)	(0.0026)	(0.0028)	(0.0048)
Endogeneity: F p -value	0.1397	0.8576	0.8321	0.9405
Overidentification: χ^2 p-value	0.2835	0.4867	0.3239	0.3991
First Stage F	8.2722	9.3859	10.1863	1.947
First stage Min. Eigenvalue	10.5588	11.7494	11.7649	2.4057
N	1824	1869	1779	798
Inverse Log Distance to All Colleges in Country	-0.01	-0.0082	-0.0066	-0.0071
	(0.0048)	(0.005)	(0.0053)	(0.0099)
$\dots \times$ Mother's education	0.0009	0.0008	0.0007	0.0007
	(0.0004)	(0.0004)	(0.0004)	(0.0007)
Endogeneity: F p-value	0.6093	0.5528	0.9978	0.951
Overidentification: χ^2 p-value	0.8584	0.9719	0.8398	0.9691
First Stage F	7.8709	8.9857	11.0574	1.4656
First stage Min. Eigenvalue	9.8565	10.9088	12.0217	1.5587
N	1824	1869	1779	798

Table 12: 2SLS second stage estimates for log wages for women

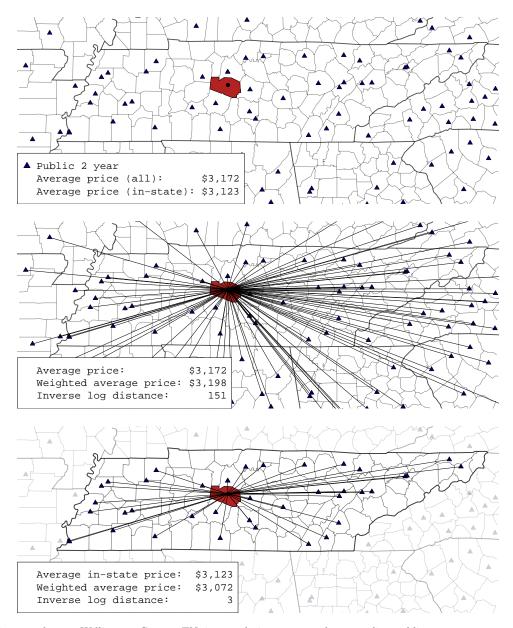
	2007	20	2008	98	2009	60	2010	0.
	OLS	N	OLS	IV	OLS	IV	OLS	IV
Years of college	0.042		0.051		0.066		0.051	
	(0.007)		(0.007)		(0.007)		(0.012)	
Public 4yr in County		0.147		0.101		0.105		0.205
		(0.053)		(0.049)		(0.046)		(0.132)
Public 2yr in County		0.068		0.034		0.074		0.089
		(0.047)		(0.05)		(0.049)		(0.154)
Inverse Log Distance: In-State Pub. 2yr		0.107		0.097		0.119		0.117
		(0.038)		(0.038)		(0.042)		(0.01)
Inverse Log Distance: All Colleges		0.082		0.041		0.077		0.118
		(0.056)		(0.053)		(0.05)		(0.13)
Distance-Weighted Tuition: In-State Pub. 2yr		0.118		0.042		0.075		0.042
		(0.053)		(0.048)		(0.046)		(0.125)
Distance-Weighted Enroll.: In-State Pub. 2yr		0.069		0.019		0.066		0.059
		(0.053)		(0.054)		(0.048)		(0.131)

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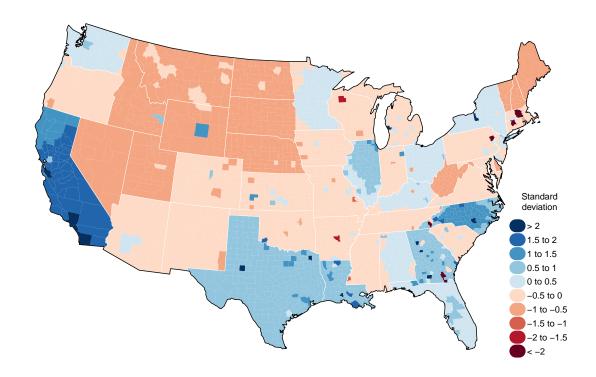
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Figure 1: Visual representation of distance measure computation using Williamson County, TN as an example.



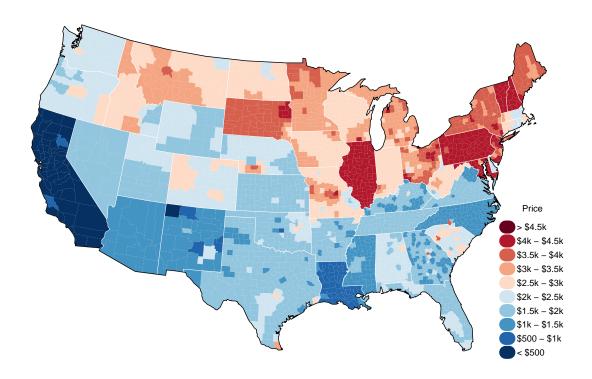
The first map locates Williamson County, TN, its population center and surrounding public two-year postsecondary institutions. The average tuition for these institutions in 2010, national and instate, are listed in the legend. The second and third maps visualize the distance measure from Williamson County's population center to all public two-year institutions (not all connections shown for clarity) and those in Tennessee. These distances are used to weight the average price for Williamson County. The second map shows the average and weighted prices when all public two-years are in the sample; the third map limits the sample to instate public two-years. As both maps show, the weighted average prices are different from the simple national and instate averages.

Figure 2: Z-scores of the sum of inverse logged distance measure to in-state community colleges in 2000



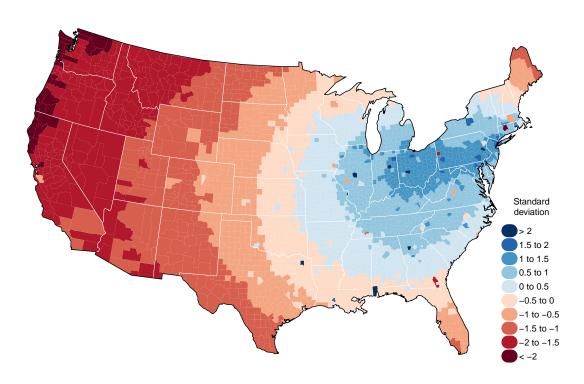
This map shows the sum of the inverse logged distances from each county population centroid to in state community colleges for the year 2000, when many of the NSLY97 respondents were 17 years old. Higher z-scores in the blue part of the color spectrum represent counties that are comparatively closer to colleges than counties in the red part of the color spectrum. This measure was computed for each county in each year of the sample period. Each NLSY97 respondent was given the value of the county in which he or she resided at age 17.

Figure 3: Distance weighted tuition for in-state community colleges in 2000



This map shows the distance-weighted tuition for in state community colleges for the year 2000, when many of the NSLY97 respondents were 17 years old. Higher z-scores in the blue part of the color spectrum represent counties that are comparatively closer to colleges than counties in the red part of the color spectrum. This measure was computed for each county in each year of the sample period. Each NLSY97 respondent was given the value of the county in which he or she resided at age 17.

Figure 4: Z-scores of the sum of inverse logged distance measure in 2000



This map shows the sum of the inverse logged distances from each county population centroid to all postsecondary institutions for the year 2000, when most of the NSLY97 respondents were 17 years old. Higher z-scores in the blue part of the color spectrum represent counties that are comparatively closer to colleges than counties in the red part of the color spectrum. This measure was computed for each county in each year of the sample period. Each NLSY97 respondent was given the value of the county in which he or she resided at age 17.