Tables & Figures for CHILD SKILL PRODUCTION: ACCOUNTING FOR PARENTAL AND MARKET-BASED TIME AND GOODS INVESTMENTS

July 11, 2025

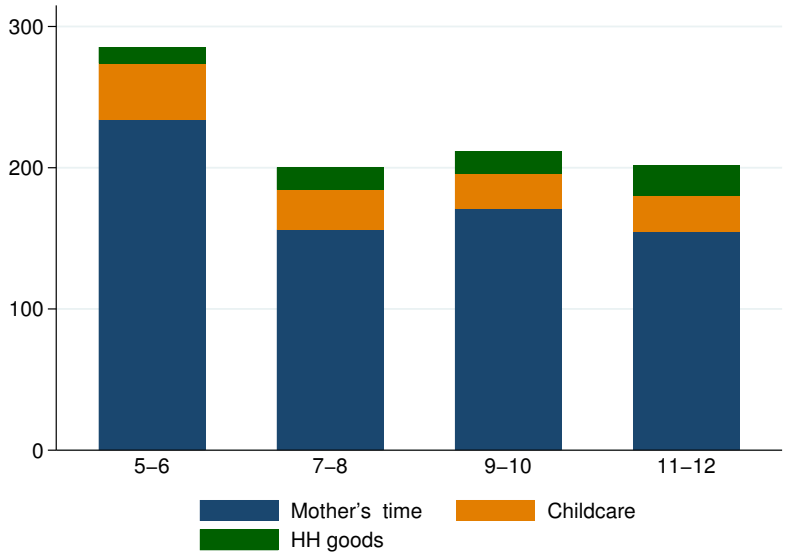

Figure 1a: Single mothers: Investment expenditures by child's age (2002 PSID).

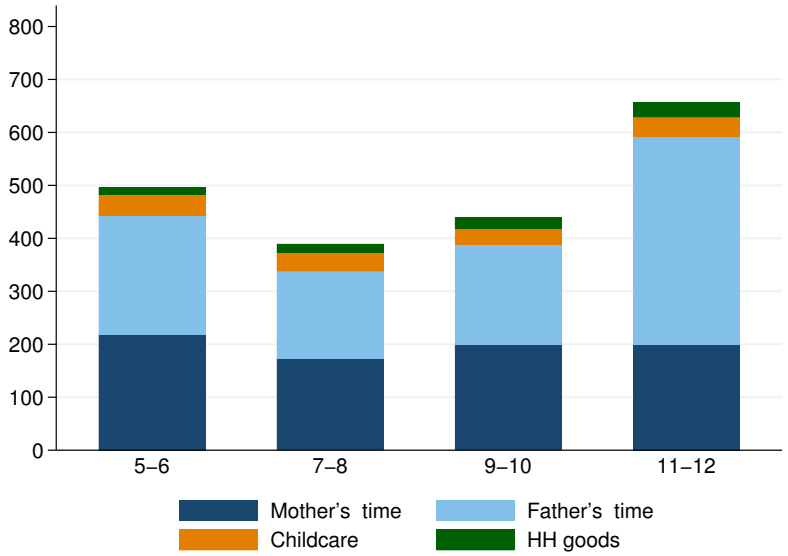

Figure 1b: Two-parent HH: Investment expenditures by child's age (2002 PSID).

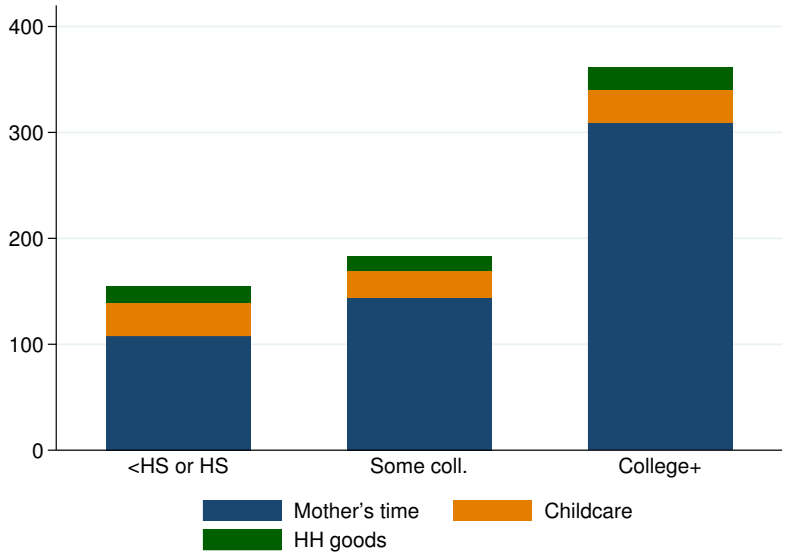

Figure 2a: Single mothers: Investment expenditures by mother's education (2002 PSID).

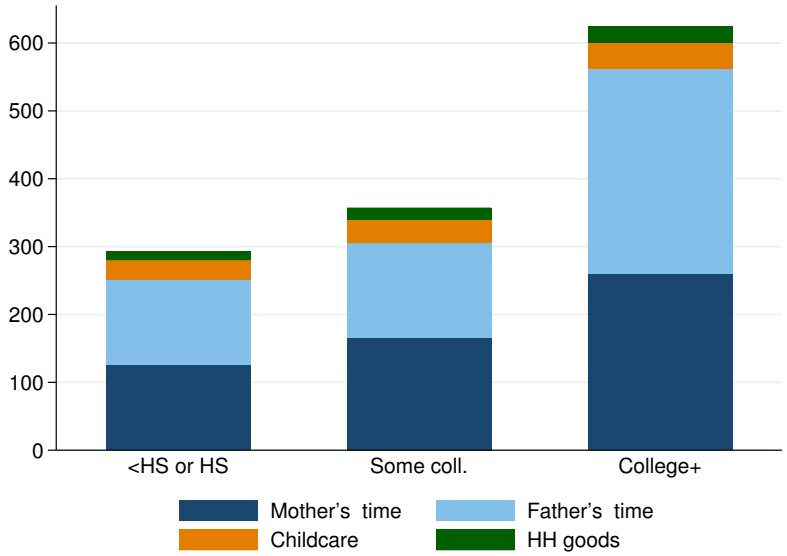

Figure 2b: Two-parent HH: Investment expenditures by mother's education (2002 PSID).

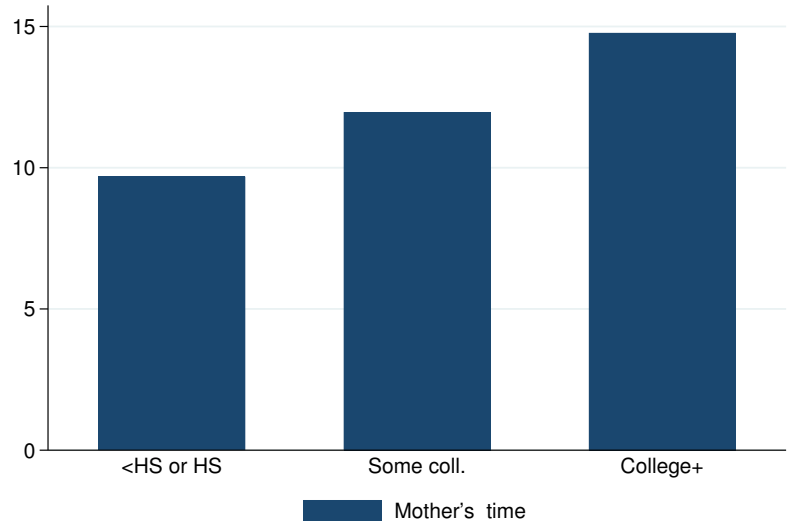

Figure 3a: Single mothers: Weekly hours with children by mother's education (2002 PSID).

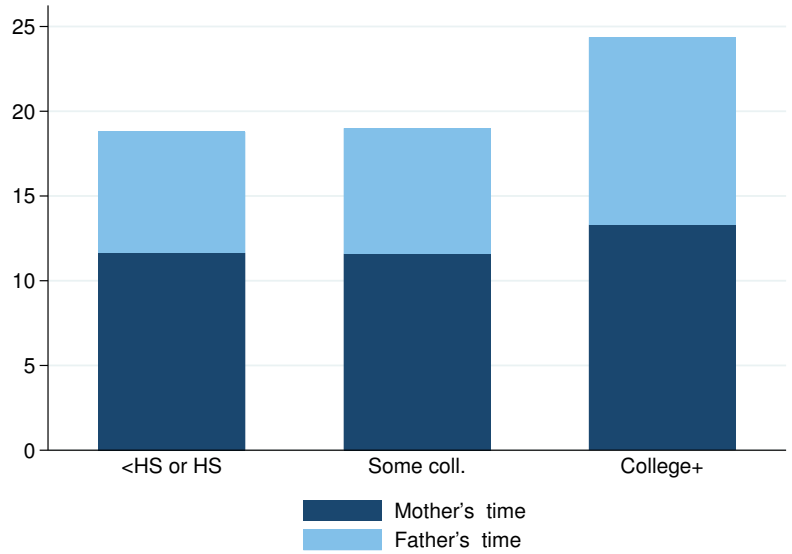

Figure 3b: Two-parent HH: Weekly hours with children by mother's education (2002 PSID).

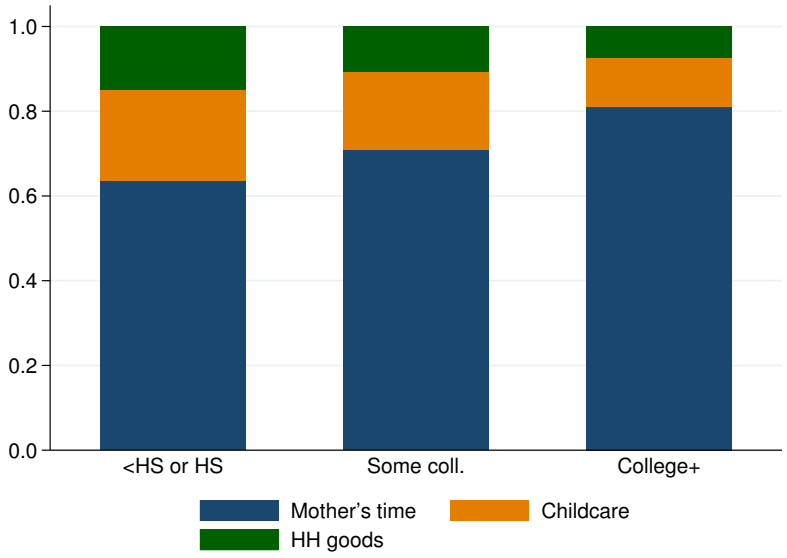

Figure 4a: Single mothers: Investment expenditures shares by mother's education (2002 PSID).

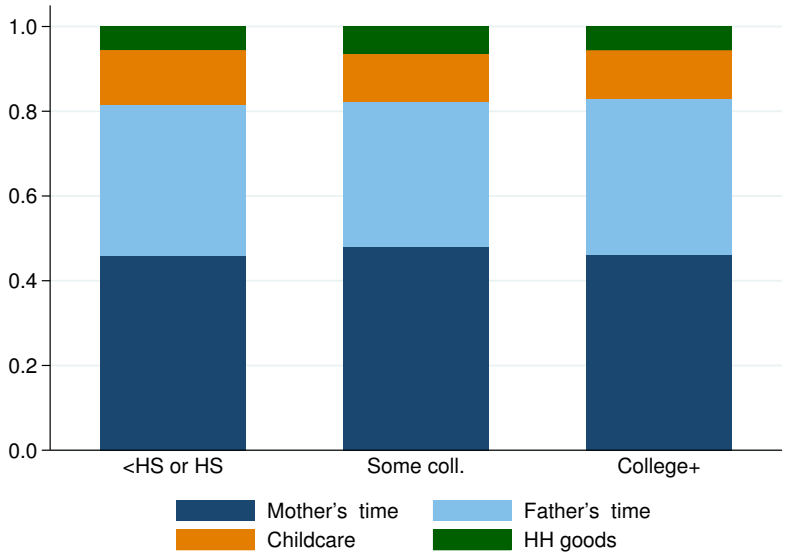

Figure 4b: Two-parent HH: Investment expenditures shares by mother's education (2002 PSID).

Table 1: Summary statistics for full sample: 2002 and 2007

	N	Mean	SD	Min	Max
$\ln(\tilde{W}_m)$	1110	2.44	0.66	-3.07	3.99
$\ln(\tilde{W}_f)$	835	2.93	0.60	1.25	4.90
$\ln(\tilde{P}_c, i)$	1512	1.10	0.32	0.27	1.89
Child's age	1512	9.53	2.10	5.00	12.00
Mother HS grad	1510	0.33	0.47	0.00	1.00
Mother some coll.	1510	0.32	0.47	0.00	1.00
Mother coll+	1510	0.27	0.44	0.00	1.00
Mother's age	1512	37.56	6.43	21.00	55.00
Father HS grad	951	0.36	0.48	0.00	1.00
Father some coll.	951	0.22	0.42	0.00	1.00
Father coll+	951	0.33	0.47	0.00	1.00
Father's age	937	40.50	7.04	20.00	65.00
Mother white	1499	0.58	0.49	0.00	1.00
Num children age 0-5	1512	0.19	0.42	0.00	2.00
Num of children	1512	2.02	0.73	1.00	6.00
Year 2007	1512	0.22	0.41	0.00	1.00

Table 2: OLS estimates for mother time/goods relative demand (ALL, 1-2 kids ages 0-12, P(work) $\geq$.75, 2002 and 2007)

	(1) OLS b/se	(2) OLS b/se	(3) OLS b/se	(4) OLS b/se	(5) IV (pred wage) b/se	(6) IV (state, year) b/se
$\ln(\tilde{W}_m, i)$	0.645***	0.646***	0.609***	0.758***	0.553**	0.749***
	(0.071)	(0.071)	(0.078)	(0.092)	(0.196)	(0.216)
Married	-0.075	-0.074	-0.121	0.022	-0.071	-0.069
	(0.095)	(0.095)	(0.104)	(0.108)	(0.096)	(0.095)
Child's age	-0.141***	-0.141***	-0.147***	-0.147***	-0.140***	-0.139***
	(0.022)	(0.022)	(0.025)	(0.024)	(0.022)	(0.022)
Mother HS grad	0.099					
	(0.350)					
Mother some	0.106	0.011	-0.043		0.026	-0.018
coll.	(0.351)	(0.102)	(0.117)		(0.113)	(0.117)
Mother coll+	-0.061	-0.157	-0.245		-0.119	-0.218
	(0.357)	(0.112)	(0.131)		(0.155)	(0.164)
Mother's age	-0.008	-0.008	-0.002		-0.007	-0.009
	(0.008)	(0.008)	(0.008)		(0.008)	(0.008)
Mother white	-0.244**	-0.243**	-0.095	-0.328**	-0.233*	-0.249**
	(0.090)	(0.089)	(0.107)	(0.102)	(0.091)	(0.090)
Num children	0.156	0.158	0.081	0.163	0.168	0.155
age 0-5	(0.126)	(0.125)	(0.144)	(0.169)	(0.126)	(0.125)
Num of children	0.089	0.089	0.090	0.027	0.082	0.097
	(0.062)	(0.062)	(0.068)	(0.066)	(0.063)	(0.063)
Mother's cogn.			-0.005			
score			(0.003)			
Mother's log				-0.346**		
wage FE				(0.114)		
_cons	2.126***	2.213***	2.602***	1.745***	2.398***	1.999***
	(0.469)	(0.355)	(0.449)	(0.366)	(0.520)	(0.553)
r2	0.190	0.190	0.167	0.193	0.181	0.187
N	727	727	603	562	720	727

Table 3: Table: OLS estimates for parental time vs. goods relative demand (1-2 kids ages 0-12, P(work) $\geq$ .75 or .9, 2002 and 2007)

	(1)	(2)	(3)	(4)
	All Mother	Single Mother	Married Mother	Married Father
	b/se	b/se	b/se	b/se
$\ln(\tilde{W}_j, i)$	0.646***	0.711***	0.628***	0.678***
	(0.071)	(0.155)	(0.079)	(0.090)
Married	-0.074			
	(0.095)			
Child's age	-0.141***	-0.162***	-0.132***	-0.107***
	(0.022)	(0.043)	(0.026)	(0.027)
Mother some coll.	0.011	0.198	-0.124	
	(0.102)	(0.173)	(0.128)	
Mother coll+	-0.157	0.009	-0.269*	
	(0.112)	(0.222)	(0.132)	
Mother's age	-0.008	-0.014	-0.005	
	(0.008)	(0.014)	(0.009)	
Mother white	-0.243**	-0.413*	-0.170	-0.053
	(0.089)	(0.167)	(0.107)	(0.123)
Num children age 0-5	0.158	-0.139	0.291*	0.148
	(0.125)	(0.239)	(0.147)	(0.134)
Num of children	0.089	0.081	0.107	0.168*
	(0.062)	(0.109)	(0.076)	(0.080)
Father some coll.				-0.130
				(0.131)
Father coll+				0.071
				(0.127)
Father's age				-0.010
				(0.008)
_cons	2.213***	2.471***	1.982***	1.282**
	(0.355)	(0.691)	(0.429)	(0.434)
r2	0.190	0.197	0.194	0.154
N	727	236	491	582

NOTE: Column (5) of the following table is reported in Appendix Table E-1 rather than Table 4 of the paper.

Table 4: OLS estimates for child care/goods relative demand (ALL, 4ca, 1-2 kids ages 0-12, 2002 and 2007)

	(1) b/se	(2) b/se	(3) b/se	(4) b/se	(5) b/se
$\ln(\tilde{P}_c, i)$	0.650**	0.598*	0.562**	0.518*	0.665***
	(0.204)	(0.258)	(0.215)	(0.212)	(0.192)
Married	0.835	0.835	0.080	0.354	0.997
	(0.573)	(0.574)	(0.645)	(0.621)	(0.689)
Child's age	-0.124***	-0.121**	-0.077	-0.082	-0.059
	(0.036)	(0.037)	(0.040)	(0.051)	(0.036)
Mother some coll.	-0.055	-0.062	0.099	0.017	0.201
	(0.161)	(0.163)	(0.175)	(0.169)	(0.158)
Mother coll+	-0.315	-0.315	-0.059	-0.216	0.392*
	(0.169)	(0.169)	(0.181)	(0.179)	(0.173)
Mother's age	0.002	0.002	-0.002	0.002	0.012
	(0.013)	(0.013)	(0.015)	(0.014)	(0.013)
Marr x Father some coll.	0.102	0.104	0.089	0.196	0.052
	(0.208)	(0.208)	(0.228)	(0.214)	(0.202)
Marr x Father coll+	-0.435*	-0.439*	-0.716**	-0.616*	-0.345
	(0.219)	(0.220)	(0.241)	(0.244)	(0.218)
Marr x Father's age	-0.017	-0.017	-0.004	-0.011	-0.015
	(0.015)	(0.015)	(0.017)	(0.015)	(0.015)
Mother white	-0.328*	-0.329*	-0.330*	-0.253	-0.081
	(0.140)	(0.140)	(0.147)	(0.147)	(0.134)
Num children age 0-5	-0.030	-0.029	0.190	0.014	0.302*
	(0.143)	(0.143)	(0.157)	(0.156)	(0.140)
Num of children	0.095	0.094	0.129	0.104	-0.039
	(0.112)	(0.112)	(0.115)	(0.117)	(0.104)
staff ratio		1.760			
		(5.355)			
$\ln(1 + R_m + Marr \cdot R_f)$			0.498***		-0.125
			(0.076)		(0.158)
$\ln(1 + e^{\Phi_m} + Marr \cdot e^{\Phi_f})$				0.394	
				(0.296)	
term_f					0.229
					(4.503)
term_m					-3.355
					(4.324)
term_g					-2.851
					(6.246)
$-\sigma^2_g$					-0.688***
					(0.084)
_cons	0.933	0.875	-0.753	-0.304	0.246
	(0.591)	(0.617)	(0.690)	(1.146)	(0.796)
r2	0.125	0.126	0.296	0.130	0.459
rss	453.780	453.633	260.005	384.136	199.738
N	347	347	249	310	249

G Additional Empirical Results

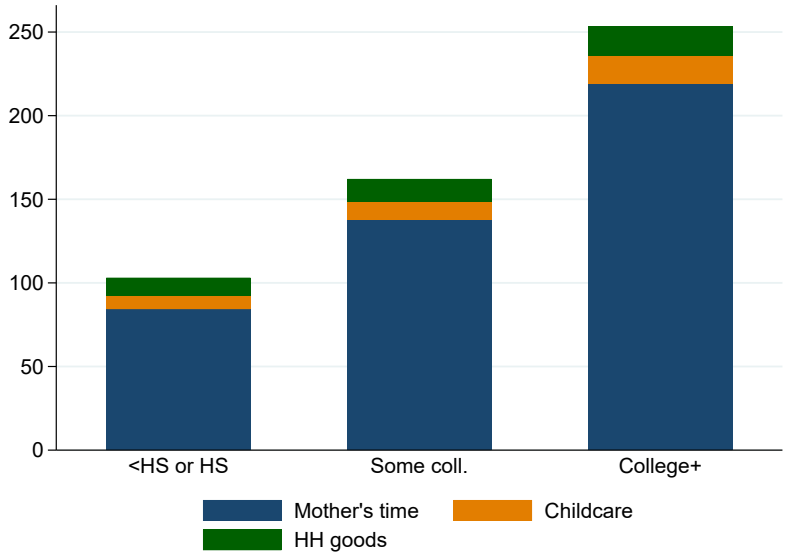

Figure G-1a: Single mothers: Investment expenditures by mother's education (2002 PSID).

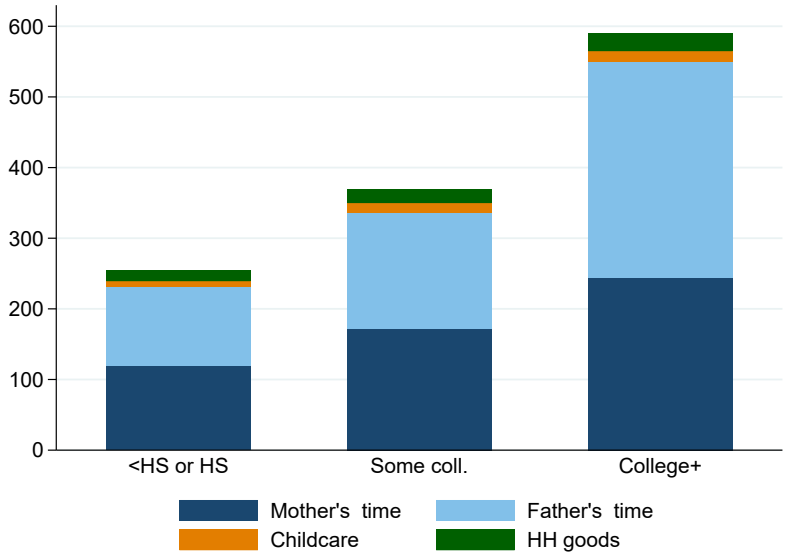

Figure G-1b: Two-parent HH: Investment expenditures by mother's education (2002 PSID).

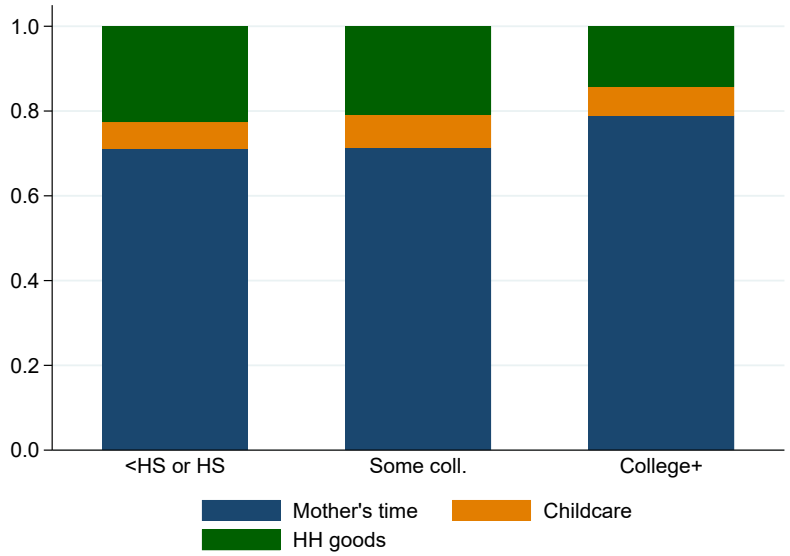

Figure G-2a: Single mothers: Investment expenditures shares by mother's education (2002 PSID).

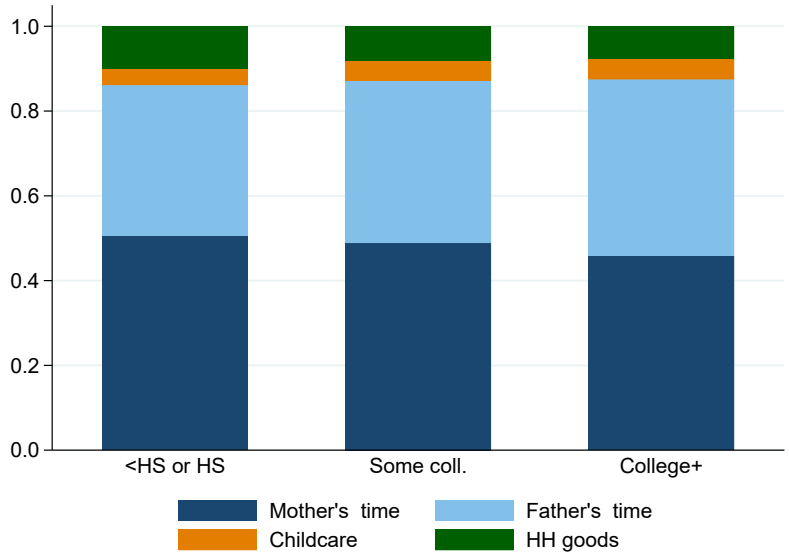

Figure G-2b: Two-parent HH: Investment expenditures shares by mother's education (2002 PSID).

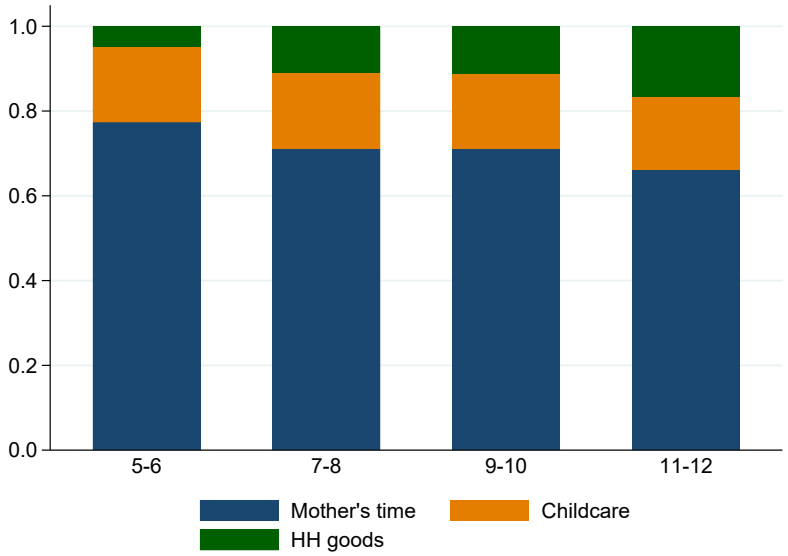

Figure G-3a: Single mothers: Investment expenditures shares by child's age (2002 PSID).

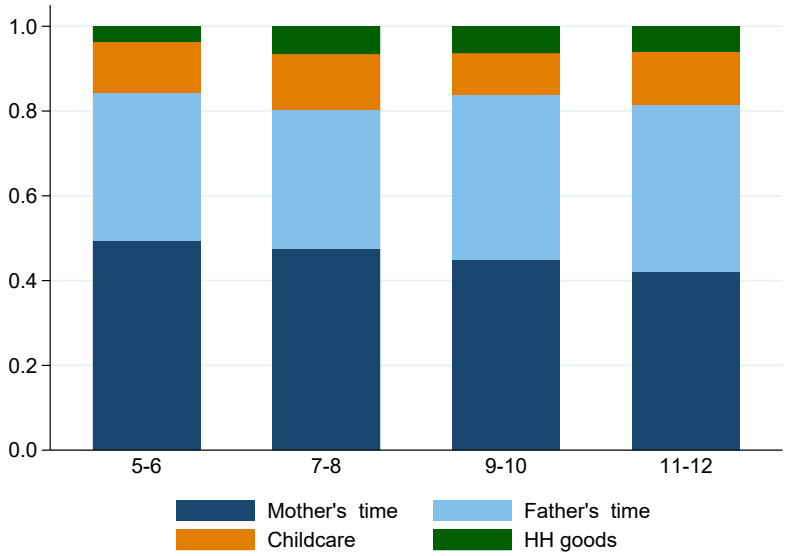

Figure G-3b: Two-parent HH: Investment expenditures shares by child's age (2002 PSID).

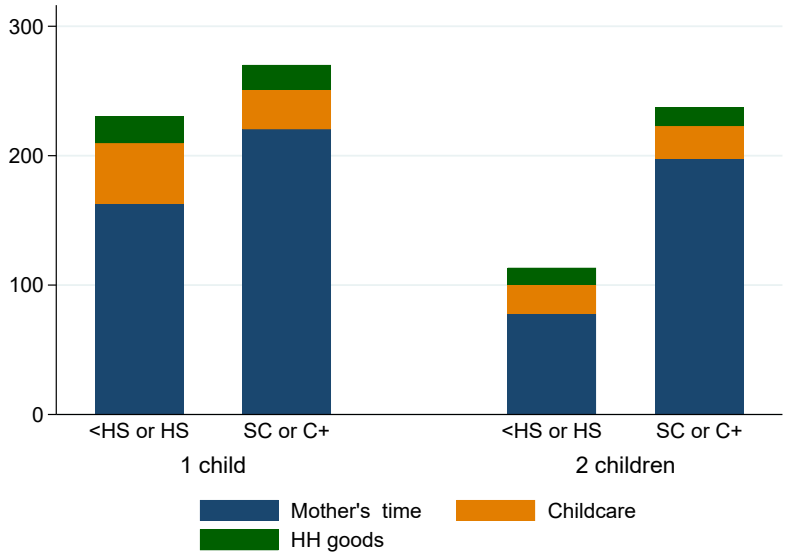

Figure G-4a: Single mothers: Investment expenditures by family size and education (2002 PSID).

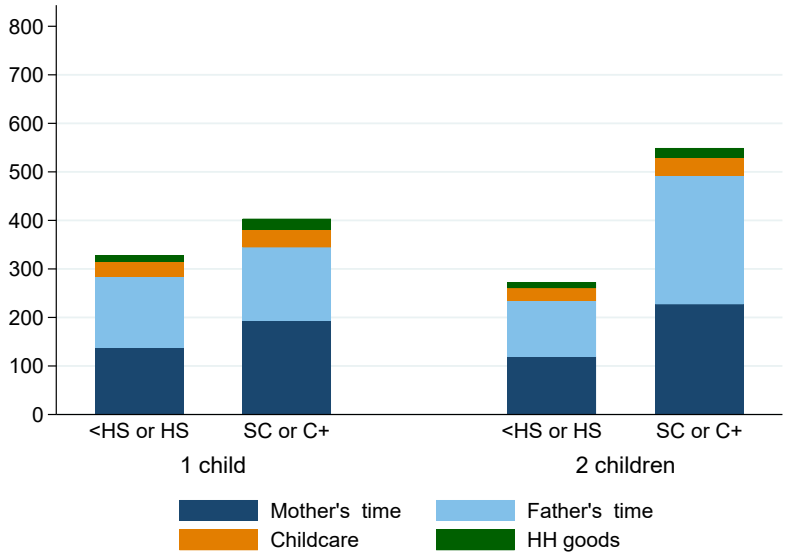

Figure G-4b: Two-parent HH: Investment expenditures by family size and education (2002 PSID).

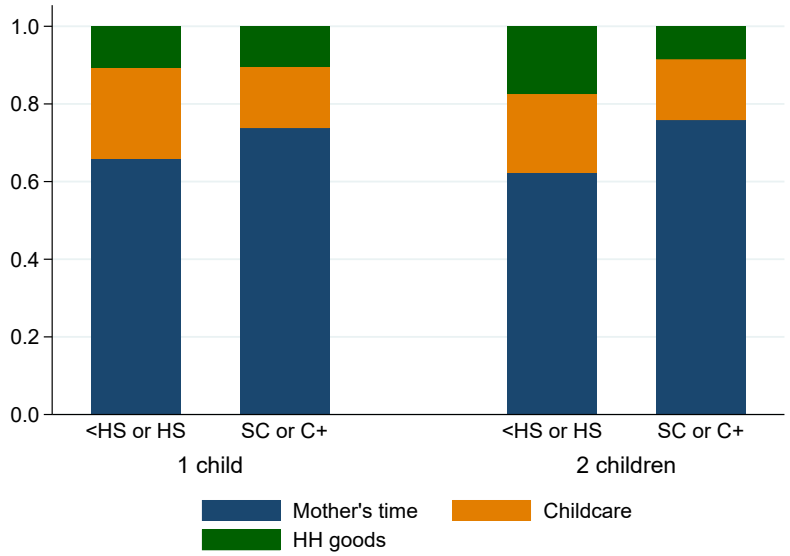

Figure G-5a: Single mothers: Investment expenditures shares by family size and education (2002 PSID).

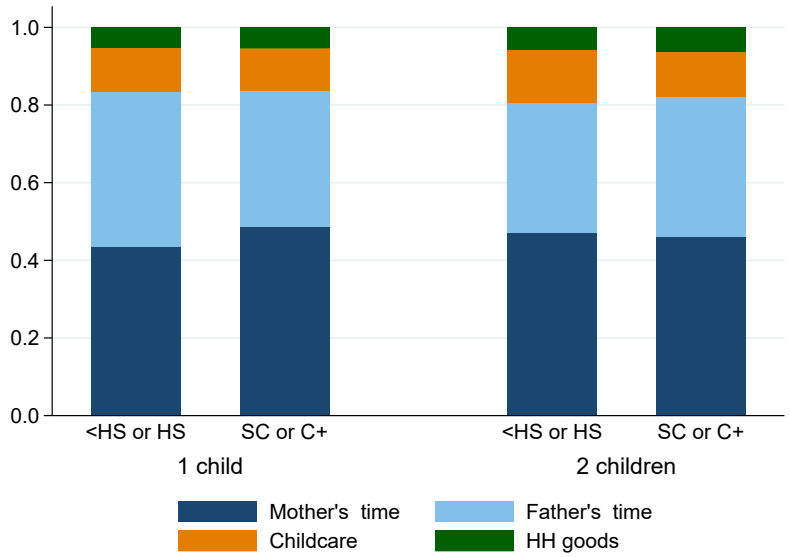

Figure G-5b: Two-parent HH: Investment expenditures shares by family size and education (2002 PSID).

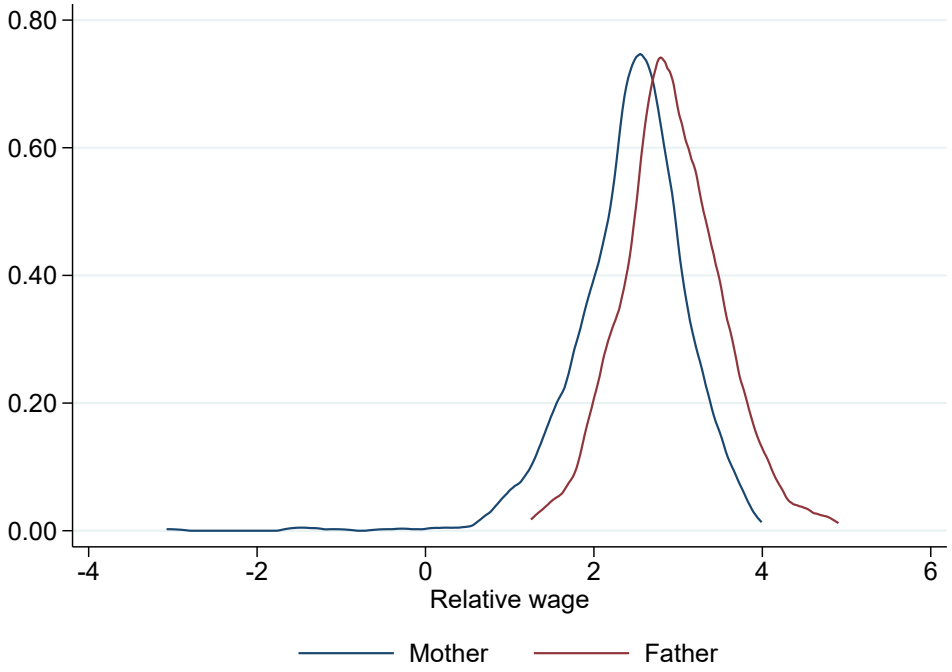

Figure G-6a: Density plot: relative wages.

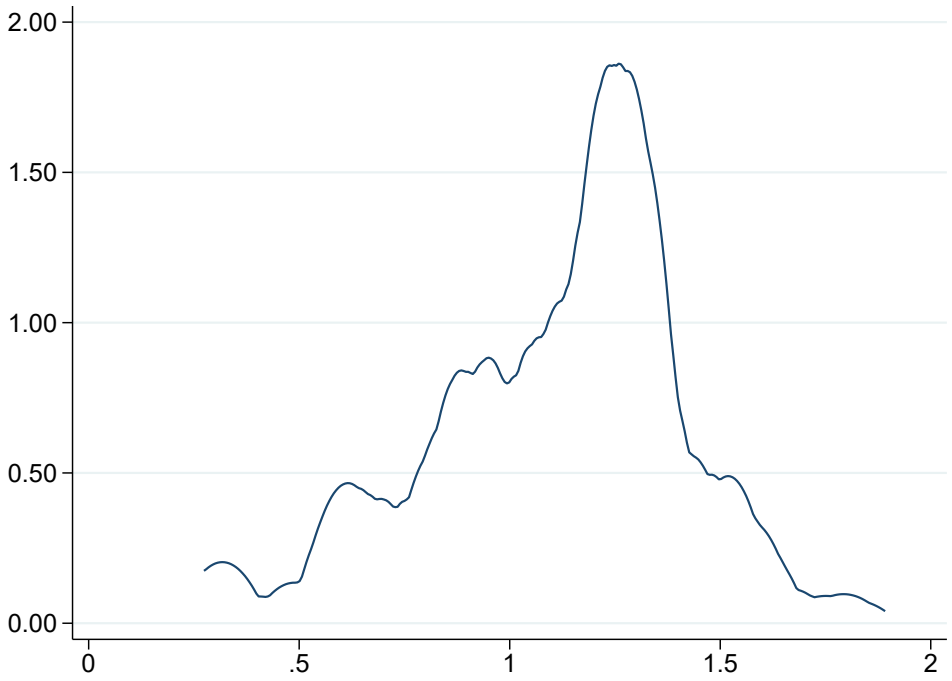

Figure G-6b: Density plot: relative childcare price.

Table G-1: Summary statistics for restricted samples: 2002 and 2007

	(1) High predicted probability of work for mothers			(2) Table 2 baseline			(3) Positive childcare expendit		
	N	Mean	SD	N	Mean	SD	N	Mean	SD
$\ln(\tilde{W}_m)$	928	2.49	0.62	727	2.51	0.62	384	2.56	0.52
$\ln(\tilde{W}_f)$	662	2.98	0.60	451	2.96	0.56	247	2.86	0.53
$\ln(\tilde{P}_c, i)$	1156	1.10	0.32	727	1.10	0.32	423	1.10	0.33
Child's age	1156	9.60	2.05	727	9.64	2.01	423	8.34	1.95
Mother HS grad	1156	0.31	0.46	727	0.29	0.45	422	0.25	0.43
Mother some coll.	1156	0.35	0.48	727	0.34	0.47	422	0.37	0.48
Mother coll+	1156	0.33	0.47	727	0.36	0.48	422	0.33	0.47
Mother's age	1156	37.87	6.36	727	37.92	6.28	423	35.92	6.22
Father HS grad	744	0.40	0.49	491	0.42	0.49	265	0.35	0.48
Father some coll.	744	0.26	0.44	491	0.27	0.44	265	0.23	0.42
Father coll+	744	0.32	0.47	491	0.30	0.46	265	0.34	0.48
Father's age	744	40.72	6.99	491	40.51	6.86	264	38.71	6.73
Mother white	1156	0.57	0.50	727	0.59	0.49	421	0.56	0.50
Num children age 0-5	1156	0.14	0.37	727	0.13	0.36	423	0.34	0.50
Num of children	1156	1.98	0.70	727	1.97	0.66	423	1.87	0.61
Year 2007	1156	0.20	0.40	727	0.19	0.39	423	0.04	0.20

Table G-2: Appendix Table: Predicted probability (average derivatives) of work probits for parents (1-2 kids ages 0-12)

	(1) Single Mothers b/se	(2) Married Mothers b/se	(3) Married Fathers b/se
Mother HS grad	0.115**	0.075	-0.024
	(0.038)	(0.045)	(0.026)
Mother some coll.	0.153***	0.111*	-0.008
	(0.039)	(0.047)	(0.027)
Mother coll+	0.271***	0.189***	0.028
	(0.053)	(0.049)	(0.031)
Mother's age	-0.005*	-0.000	0.001
	(0.002)	(0.003)	(0.002)
Mother white	0.047	-0.019	0.056***
	(0.029)	(0.022)	(0.012)
Num children age 0-5	-0.024	-0.034	0.006
	(0.055)	(0.038)	(0.023)
Num of children	-0.004	-0.001	-0.010
	(0.017)	(0.014)	(0.007)
Age of youngest child	0.007	0.012	0.002
	(0.009)	(0.007)	(0.004)
5.age	0.000	0.000	0.000
	(.)	(.)	(.)
6.age	-0.032	-0.075	-0.007
	(0.075)	(0.054)	(0.031)
7.age	-0.012	-0.010	0.014
	(0.070)	(0.051)	(0.030)
8.age	-0.054	0.012	0.007
	(0.074)	(0.051)	(0.030)
9.age	0.003	-0.039	0.006
	(0.068)	(0.052)	(0.029)
10.age	0.021	-0.039	-0.016
	(0.067)	(0.052)	(0.031)
11.age	0.038	-0.033	-0.007
	(0.064)	(0.052)	(0.030)
12.age	-0.028	-0.003	-0.013
	(0.069)	(0.052)	(0.031)
1997.year	0.000	0.000	0.000
	(.)	(.)	(.)
2002.year	0.018	0.074***	0.071***
	(0.028)	(0.021)	(0.012)
2007.year	0.005	-0.016	0.075***
	(0.047)	(0.040)	(0.017)
Father HS grad		0.123***	0.007
		(0.036)	(0.020)
Father some coll.		0.110**	0.005
		(0.041)	(0.022)
Father coll+		0.023	0.071**
		(0.041)	(0.026)
Father's age		-0.002	-0.002
		(0.002)	(0.001)
N	824	1753	1737

Table G-3: Appendix Table: Log wage regressions for parents (1-2 kids ages 0-12, P(work) $\geq$ .75 or .9)

	(1) Single Mothers b/se	(2) Married Mothers b/se	(3) Married Fathers b/se
Parent some coll.	0.246***	0.257***	
	(0.053)	(0.049)	
Parent coll+	0.526***	0.585***	
	(0.067)	(0.048)	
Parent's age	0.068	0.055	
	(0.038)	(0.033)	
Parent's age squared	-0.001	-0.001	
	(0.001)	(0.000)	
Mother white	0.133**	-0.044	0.178***
	(0.050)	(0.042)	(0.041)
Parent HS grad			0.307***
			(0.066)
Parent some coll.			0.476***
			(0.069)
Parent coll+			0.781***
			(0.066)
Parent's age			0.072***
			(0.020)
Parent's age squared			-0.001***
			(0.000)
_cons	0.614	0.963	0.769
	(0.679)	(0.620)	(0.401)
r2	0.149	0.179	0.223
N	542	932	1182

Table G-4: Appendix Table: First-stage estimates for mother time/goods relative demand using different predicted wage measures as instruments (ALL, 1-2 kids ages 0-12, P(work) $\geq$ .75, 2002 and 2007)

	(1) Uses All Variation b/se	(2) Excludes Avg. State Diff. b/se	(3) Excludes Avg. Occ Diff. b/se	(4) Excludes Avg. State an b/se
Mother's predicted log wage	1.084*** (0.103)			
Married	-0.045 (0.046)	-0.057 (0.047)	-0.055 (0.049)	-0.058 (0.049)
Child's age	-0.009 (0.011)	-0.011 (0.011)	-0.012 (0.011)	-0.013 (0.012)
Mother some coll.	0.191*** (0.049)	0.201*** (0.050)	0.270*** (0.051)	0.271*** (0.052)
Mother coll+	0.433*** (0.052)	0.448*** (0.053)	0.610*** (0.054)	0.596*** (0.055)
Mother's age	0.009* (0.004)	0.012*** (0.004)	0.009* (0.004)	0.011** (0.004)
Mother white	0.026 (0.043)	0.089* (0.044)	0.073 (0.046)	0.096* (0.048)
Num children age 0-5	0.039 (0.060)	0.032 (0.062)	0.042 (0.064)	0.035 (0.065)
Num of children	-0.047 (0.030)	-0.055 (0.030)	-0.069* (0.031)	-0.074* (0.032)
Mother's predicted log wage		1.002*** (0.110)		
Mother's predicted log wage			0.762*** (0.178)	
Mother's predicted log wage				0.373 (0.209)
_cons	0.295 (0.229)	0.428 (0.241)	0.537 (0.395)	1.323** (0.453)
F_all_5	111.602	82.826	18.363	3.187
N	720	720	720	720

Table G-5: Appendix Table: IV estimates for mother time/goods relative demand using different predicted wage measures as instruments (ALL, 1-2 kids ages 0-12, P(work) $\geq$ .75, 2002 and 2007)

	(1) Uses All Variation b/se	(2) Excludes Avg. State Diff. b/se	(3) Excludes Avg. Occ Diff. b/se	(4) Excludes Avg. State and
$\ln(\tilde{W}_m, i)$	0.553**	0.359	0.799	-0.450
	(0.196)	(0.226)	(0.457)	(1.243)
Married	-0.071	-0.081	-0.058	-0.123
	(0.096)	(0.097)	(0.098)	(0.127)
Child's age	-0.140***	-0.143***	-0.137***	-0.154***
	(0.022)	(0.023)	(0.023)	(0.031)
Mother some	0.026	0.078	-0.040	0.296
coll.	(0.113)	(0.118)	(0.158)	(0.353)
Mother coll+	-0.119	-0.007	-0.262	0.463
	(0.155)	(0.168)	(0.285)	(0.731)
Mother's age	-0.007	-0.005	-0.010	0.004
	(0.008)	(0.008)	(0.009)	(0.016)
Mother white	-0.233*	-0.218*	-0.251**	-0.158
	(0.091)	(0.092)	(0.096)	(0.138)
Num children	0.168	0.174	0.159	0.201
age 0-5	(0.126)	(0.127)	(0.127)	(0.150)
Num of children	0.082	0.068	0.101	0.008
	(0.063)	(0.064)	(0.070)	(0.116)
_cons	2.398***	2.800***	1.887	4.479
	(0.520)	(0.572)	(1.002)	(2.606)
N	720	720	720	720

Table G-6: Appendix Table: OLS & IV (instruments: pred wage) estimates for mother time/goods relative demand for P(work) $\geq$ .75, no restriction, and P(work) $\geq$ 0.85 (ALL, 1-2 kids ages 0-12, 2002 and 2007)

	(1)	(2)	(3)	(4)	(5)	(6)
	Base (OLS)	All (OLS)	P(work)$\geq$0.85 (OLS)	Base (IV)	All (IV)	P(work)$\geq$0.85 (IV)
	b/se	b/se	b/se	b/se	b/se	b/se
$\ln(\tilde{W}_m, i)$	0.646***	0.662***	0.624***	0.749***	0.413*	0.531*
	(0.071)	(0.065)	(0.101)	(0.216)	(0.185)	(0.235)
Married	-0.074	-0.079	-0.146	-0.069	-0.077	-0.141
	(0.095)	(0.089)	(0.116)	(0.095)	(0.091)	(0.116)
Child's age	-0.141***	-0.131***	-0.146***	-0.139***	-0.133***	-0.146***
	(0.022)	(0.020)	(0.031)	(0.022)	(0.020)	(0.031)
Mother some	0.011	-0.071	0.021	-0.018	-0.003	0.019
coll.	(0.102)	(0.092)	(0.145)	(0.117)	(0.107)	(0.146)
Mother coll+	-0.157	-0.226*	-0.152	-0.218	-0.088	-0.145
	(0.112)	(0.103)	(0.153)	(0.164)	(0.149)	(0.172)
Mother's age	-0.008	-0.006	-0.005	-0.009	-0.004	-0.003
	(0.008)	(0.007)	(0.010)	(0.008)	(0.007)	(0.011)
Mother white	-0.243**	-0.152	-0.283*	-0.249**	-0.128	-0.281*
	(0.089)	(0.084)	(0.111)	(0.090)	(0.086)	(0.111)
Num children	0.158	0.147	-0.024	0.155	0.164	-0.007
age 0-5	(0.125)	(0.104)	(0.215)	(0.125)	(0.106)	(0.217)
Num of children	0.089	0.100	0.106	0.097	0.080	0.091
	(0.062)	(0.056)	(0.080)	(0.063)	(0.058)	(0.081)
_cons	2.213***	1.992***	2.224***	1.999***	2.501***	2.425***
	(0.355)	(0.327)	(0.461)	(0.553)	(0.488)	(0.627)
r2	0.190	0.179	0.163	0.187	0.161	0.151
N	727	860	417	727	851	412

Table G-7: Appendix Table: IV (predicted wage) estimates for parental time vs. goods relative demand (1-2 kids ages 0-12, P(work) $\geq$ .75 or .9, 2002 and 2007)

	(1)	(2)	(3)	(4)
	All Mother	Single Mother	Married Mother	Married Father
	b/se	b/se	b/se	b/se
$\ln(\tilde{W}_j, i)$	0.553**	0.281	0.697**	0.346
	(0.196)	(0.387)	(0.228)	(0.257)
Married	-0.071			
	(0.096)			
Child's age	-0.140***	-0.176***	-0.129***	-0.099***
	(0.022)	(0.045)	(0.026)	(0.027)
Mother some coll.	0.026	0.286	-0.156	
	(0.113)	(0.189)	(0.142)	
Mother coll+	-0.119	0.181	-0.320	
	(0.155)	(0.279)	(0.188)	
Mother's age	-0.007	-0.009	-0.007	
	(0.008)	(0.014)	(0.009)	
Mother white	-0.233*	-0.365*	-0.170	0.001
	(0.091)	(0.175)	(0.107)	(0.128)
Num children age 0-5	0.168	-0.121	0.292*	0.154
	(0.126)	(0.240)	(0.147)	(0.135)
Num of children	0.082	0.028	0.110	0.182*
	(0.063)	(0.117)	(0.076)	(0.081)
Father some coll.				-0.020
				(0.154)
Father coll+				0.276
				(0.183)
Father's age				-0.010
				(0.009)
_cons	2.398***	3.502**	1.858**	2.028**
	(0.520)	(1.086)	(0.582)	(0.683)
r2	0.181	0.155	0.195	0.136
N	720	233	487	578

Table G-8: Appendix Table: OLS estimates for parental time vs. goods relative demand (1-2 kids ages 0-12, P(work) $\geq$ .75 or .9, 2002 and 2007)

	(1) All Mother b/se	(2) Single Mother b/se	(3) Married Mother b/se	(4) Married Father b/se
$\ln(\tilde{W}_j, i)$	0.758***	0.767***	0.790***	0.779***
	(0.092)	(0.198)	(0.106)	(0.121)
Married	0.022			
	(0.108)			
Child's age	-0.147***	-0.163**	-0.144***	-0.127***
	(0.024)	(0.053)	(0.027)	(0.030)
Mother's log wage FE	-0.346**	-0.089	-0.503***	
	(0.114)	(0.198)	(0.141)	
Mother white	-0.328**	-0.579**	-0.217	-0.287
	(0.102)	(0.192)	(0.121)	(0.155)
Num children age 0-5	0.163	-0.011	0.222	0.303
	(0.169)	(0.360)	(0.190)	(0.187)
Num of children	0.027	-0.011	0.046	0.169
	(0.066)	(0.117)	(0.082)	(0.092)
Father's log wage FE				-0.171
				(0.122)
_cons	1.745***	2.055*	1.542***	0.959*
	(0.366)	(0.829)	(0.403)	(0.482)
r2	0.193	0.215	0.197	0.171
N	562	162	400	413

Table G-9: Appendix Table: Heckman two-step estimates for mother time/goods relative demand (MARRIED, 1-2 kids ages 0-12, 2002 and 2007)

	(1) father only b/se	(2) father only b/se	(3) P_c only b/se	(4) Both b/se	(5) Both, P(work) $\geq$ .75 b/se
ln_tau_m_g_exp_ratio					
$\ln(\tilde{W}_m, i)$	0.644***	0.640***	0.640***	0.640***	0.633***
	(0.075)	(0.075)	(0.128)	(0.075)	(0.079)
Mother HS grad	-0.110				
	(0.248)				
Mother some coll.	-0.335	-0.230	-0.559	-0.237	-0.148
	(0.272)	(0.127)	(0.791)	(0.126)	(0.136)
Mother coll+	-0.472	-0.361*	-0.846	-0.371*	-0.302*
	(0.296)	(0.147)	(1.187)	(0.146)	(0.143)
Mother's age	-0.001	-0.002	0.016	-0.001	-0.004
	(0.009)	(0.009)	(0.048)	(0.009)	(0.010)
Mother white	-0.073	-0.084	0.171	-0.079	-0.154
	(0.111)	(0.108)	(0.651)	(0.107)	(0.112)
Num children age 0-5	0.316*	0.311*	0.469	0.315*	0.283
	(0.126)	(0.125)	(0.467)	(0.125)	(0.149)
Num of children	0.105	0.107	0.176	0.108	0.116
	(0.070)	(0.069)	(0.213)	(0.069)	(0.077)
Child's age	-0.134***	-0.133***	-0.171	-0.134***	-0.142***
	(0.028)	(0.027)	(0.112)	(0.027)	(0.030)
2002.year	0.000	0.000	0.000	0.000	0.000
	(.)	(.)	(.)	(.)	(.)
2007.year	0.090	0.086	0.336	0.092	0.084
	(0.133)	(0.133)	(0.606)	(0.133)	(0.139)
_cons	1.952***	1.853***	2.287	1.865***	2.036***
	(0.469)	(0.409)	(1.409)	(0.410)	(0.435)
pos_hrs_m					
Mother HS grad	0.178				
	(0.234)				
Mother some coll.	0.503*	0.347*	0.287*	0.343*	0.424*
	(0.248)	(0.140)	(0.126)	(0.141)	(0.168)
Mother coll+	0.781**	0.625***	0.453***	0.619***	0.669***
	(0.256)	(0.153)	(0.126)	(0.153)	(0.185)
Mother's age	-0.014	-0.013	-0.019	-0.015	-0.018
	(0.015)	(0.015)	(0.010)	(0.015)	(0.018)
Mother white	-0.185	-0.173	-0.268*	-0.192	-0.157
	(0.128)	(0.127)	(0.125)	(0.128)	(0.153)
Num children age 0-5	-0.118	-0.112	-0.154	-0.116	0.170
	(0.139)	(0.139)	(0.135)	(0.139)	(0.212)
Num of children	-0.041	-0.048	-0.061	-0.047	-0.073
	(0.079)	(0.079)	(0.077)	(0.079)	(0.091)
Child's age	0.037	0.038	0.039	0.039	0.053
	(0.032)	(0.032)	(0.031)	(0.032)	(0.038)
2002.year	0.000	0.000	0.000	0.000	0.000
	(.)	(.)	(.)	(.)	(.)
2007.year	-0.266	-0.275	-0.219	-0.288*	-0.264
	(0.144)	(0.143)	(0.140)	(0.144)	(0.175)
fed_hs	0.433*	0.478**		0.494**	0.616
	(0.191)	(0.182)		(0.183)	(0.388)
fed_scoll	0.228	0.269		0.276	0.338
	(0.209)	(0.202)		(0.202)	(0.397)
fed_collplus	-0.174	-0.137		-0.135	-0.198
	(0.216)	(0.210)		(0.211)	(0.411)
f_age	0.007	0.007		0.007	0.013
	(0.013)	(0.013)		(0.013)	(0.015)
ln_pchcare_4ca			0.082	0.161	0.116
			(0.158)	(0.162)	(0.190)

Table G-10: Appendix Table: OLS estimates for mother time/goods relative demand by child age (ALL, 1-2 kids ages 0-12, P(work) $\geq$ .75 2002 and 2007)

	(1)	(2)	(3)
	All	Ages 5-8	Ages 9-12
	b/se	b/se	b/se
$\ln(\tilde{W}_m, i)$	0.646***	0.648***	0.659***
	(0.071)	(0.135)	(0.086)
Married	-0.074	-0.114	-0.036
	(0.095)	(0.158)	(0.120)
Child's age	-0.141***	-0.243**	-0.160***
	(0.022)	(0.079)	(0.048)
Mother some	0.011	0.263	-0.101
coll.	(0.102)	(0.174)	(0.127)
Mother coll+	-0.157	-0.109	-0.180
	(0.112)	(0.192)	(0.139)
Mother's age	-0.008	-0.009	-0.008
	(0.008)	(0.012)	(0.010)
Mother white	-0.243**	-0.125	-0.323**
	(0.089)	(0.144)	(0.115)
Num children	0.158	0.130	0.095
age 0-5	(0.125)	(0.162)	(0.207)
Num of children	0.089	0.062	0.087
	(0.062)	(0.120)	(0.073)
_cons	2.213***	2.838***	2.491***
	(0.355)	(0.744)	(0.639)
r2	0.190	0.170	0.151
rss	826.887	213.167	606.904
N	727	224	503

p-value for (2) and (3)= 0.825

Table G-11: Appendix Table: OLS estimates for mother time/goods relative demand by father wage (MARRIED, 1-2 kids ages 0-12, P(work) $\geq$ .75 2002 and 2007)

	(1) All b/se	(2) Below Median b/se	(3) Above Median b/se
$\ln(\tilde{W}_m, i)$	0.716***	0.797***	0.647***
	(0.082)	(0.111)	(0.124)
Child's age	-0.124***	-0.099**	-0.152***
	(0.027)	(0.037)	(0.039)
Mother some	-0.145	-0.293	0.087
coll.	(0.133)	(0.167)	(0.221)
Mother coll+	-0.298*	-0.312	-0.224
	(0.136)	(0.182)	(0.213)
Mother's age	-0.007	-0.008	0.002
	(0.010)	(0.013)	(0.016)
Mother white	-0.119	-0.141	-0.031
	(0.112)	(0.140)	(0.194)
Num children	0.315*	0.373*	0.272
age 0-5	(0.149)	(0.189)	(0.241)
Num of children	0.084	0.072	0.115
	(0.080)	(0.108)	(0.121)
_cons	1.779***	1.525*	1.576*
	(0.443)	(0.599)	(0.763)
r2	0.222	0.258	0.203
rss	457.346	217.931	233.663
N	451	231	220

p-value for (2) and (3) = 0.786

Table G-12: Appendix Table: OLS estimates for mother time/goods relative demand conditioning on 1997 AP and LW scores (ALL, 1-2 kids ages 0-12, P(work) $\geq$ .75 2002 and 2007, p-value .0846837401379907)

	(1) Baseline b/se	(2) Includes Avg Test 97 b/se	(3) Avg Test 97 low b/se	(4) Avg Test 97 high b/se
$\ln(\tilde{W}_m, i)$	0.557***	0.562***	0.327	0.676***
	(0.117)	(0.118)	(0.195)	(0.142)
Married	-0.118	-0.119	-0.145	-0.054
	(0.147)	(0.148)	(0.210)	(0.211)
Child's age	-0.109*	-0.106	-0.084	-0.121
	(0.054)	(0.054)	(0.083)	(0.070)
Mother some	-0.108	-0.101	-0.303	0.090
coll.	(0.155)	(0.156)	(0.215)	(0.236)
Mother coll+	-0.243	-0.227	-0.113	-0.210
	(0.172)	(0.176)	(0.267)	(0.237)
Mother's age	0.001	0.002	0.018	-0.020
	(0.012)	(0.012)	(0.017)	(0.016)
Mother white	-0.279	-0.268	-0.543*	0.138
	(0.146)	(0.148)	(0.212)	(0.210)
Num children	0.069	0.081	-0.222	0.262
age 0-5	(0.232)	(0.234)	(0.368)	(0.305)
Num of children	0.120	0.118	0.084	0.130
	(0.089)	(0.089)	(0.127)	(0.128)
avgtest97		-0.029		
		(0.068)		
_cons	1.810**	1.741*	1.783	1.983*
	(0.682)	(0.701)	(1.054)	(0.908)
r2	0.094	0.095	0.088	0.191
rss	400.478	400.251	207.122	173.339
N	339	339	165	174

p-value for (3) and (4) = 0.085

Table G-13: Appendix Table: Probit estimates for positive child care expenditures (1-2 kids ages 0-12, pos_chcare_imp, 2002 and 2007)

	(1)
	All Mothers
	b/se
ln_pratio_4ca	0.035
	(0.035)
Child's age	-0.040***
	(0.006)
Mother some coll.	0.098***
	(0.025)
Mother coll+	0.120***
	(0.028)
Mother's age	-0.002
	(0.002)
Mother white	-0.029
	(0.025)
Num children age 0-5	0.089**
	(0.027)
Num of children	-0.054*
	(0.022)
Married	-0.028
	(0.026)
2002.year	0.000
	(.)
2007.year	-0.194***
	(0.028)
HH Head same state	-0.015
	(0.024)
Any children ages 13+	-0.045
	(0.033)
N	1391

Table G-14: Appendix Table: Heckman two-step estimates for childcare/goods relative demand (ALL, 4ca, 1-2 kids ages 0-12, 2002 and 2007)

	(1) b/se	(2) b/se	(3) b/se
ln_invratio_imp			
$\ln(\tilde{P}_c, i)$	0.655**	0.653**	0.456*
	(0.219)	(0.217)	(0.214)
Married	0.825	0.833	0.085
	(0.626)	(0.622)	(0.635)
Child's age	-0.242***	-0.233***	-0.129
	(0.063)	(0.067)	(0.066)
Mother some coll.	0.253	0.232	0.175
	(0.203)	(0.206)	(0.187)
Mother coll+	0.054	0.028	-0.062
	(0.234)	(0.241)	(0.208)
Mother's age	-0.004	-0.004	-0.002
	(0.014)	(0.014)	(0.014)
Marr x Father some coll.	0.071	0.077	0.172
	(0.223)	(0.221)	(0.217)
Marr x Father coll+	-0.455	-0.453	-0.660**
	(0.236)	(0.233)	(0.244)
Marr x Father's age	-0.018	-0.018	-0.006
	(0.016)	(0.016)	(0.016)
Mother white	-0.342*	-0.345*	-0.214
	(0.152)	(0.151)	(0.150)
Num children age 0-5	0.175	0.158	0.126
	(0.177)	(0.179)	(0.184)
Num of children	-0.078	-0.063	0.010
	(0.144)	(0.148)	(0.153)
$\ln(1 + e^{\Phi_m} + Marr \cdot e^{\Phi_f})$			0.544
			(0.306)
_cons	1.228	1.206	-0.491
	(0.643)	(0.638)	(1.146)
pos_chcare_imp			
$\ln(\tilde{P}_c, i)$	0.103	0.102	-0.084
	(0.135)	(0.134)	(0.158)
Married	0.144	0.285	-0.191
	(0.379)	(0.375)	(0.469)
Child's age	-0.135***	-0.134***	-0.120***
	(0.023)	(0.023)	(0.034)
Mother some coll.	0.339***	0.351***	0.282*
	(0.101)	(0.101)	(0.118)
Mother coll+	0.501***	0.508***	0.398**
	(0.114)	(0.113)	(0.133)
Mother's age	-0.009	-0.004	0.001
	(0.009)	(0.009)	(0.011)
Marr x Father some coll.	-0.060	-0.067	-0.105
	(0.135)	(0.135)	(0.154)
Marr x Father coll+	-0.009	-0.009	-0.100
	(0.146)	(0.146)	(0.178)
Marr x Father's age	-0.006	-0.009	-0.001
	(0.009)	(0.009)	(0.011)
Mother white	-0.082	-0.067	0.026
	(0.095)	(0.094)	(0.111)
Num children age 0-5	0.298**	0.301**	0.339**
	(0.106)	(0.105)	(0.129)
Num of children	-0.243**	-0.233*	-0.244*
	(0.094)	(0.094)	(0.111)
2002.year	0.000	0.000	0.000
	(.)	(.)	(.)
2007.year	-0.757***	-0.751***	-0.772***

Table G-15: OLS estimates for child care/goods relative demand (4ca, 1-2 kids ages 0-12, 2002 and 2007)

	(1) Single b/se	(2) Single b/se	(3) Single b/se	(4) Single b/se	(5) Married b/se	(6) Married b/se	(7) Married b/se	(8) Married b/se
ln_pratio_4ca	0.853**	0.656*	0.645*	0.737*	0.589*	0.428	0.464	0.609*
	(0.309)	(0.303)	(0.311)	(0.287)	(0.275)	(0.315)	(0.293)	(0.265)
Child's age	-0.132*	-0.048	-0.078	-0.047	-0.119*	-0.112	-0.096	-0.065
	(0.057)	(0.059)	(0.085)	(0.056)	(0.046)	(0.057)	(0.066)	(0.048)
Mother some coll.	0.074	-0.010	0.018	0.260	-0.191	0.076	-0.062	0.146
	(0.260)	(0.261)	(0.289)	(0.259)	(0.215)	(0.252)	(0.227)	(0.214)
Mother coll+	-0.091	-0.196	-0.200	0.291	-0.496*	-0.038	-0.291	0.422
	(0.283)	(0.277)	(0.317)	(0.296)	(0.219)	(0.252)	(0.232)	(0.222)
Mother's age	-0.005	0.006	-0.002	0.016	0.007	-0.024	0.002	-0.014
	(0.017)	(0.017)	(0.017)	(0.016)	(0.024)	(0.030)	(0.026)	(0.025)
Mother white	-0.789**	-0.706**	-0.692**	-0.429	-0.101	-0.107	-0.015	0.086
	(0.240)	(0.229)	(0.260)	(0.229)	(0.177)	(0.198)	(0.189)	(0.168)
Num children age 0-5	-0.289	0.055	-0.164	0.205	0.021	0.200	0.081	0.357
	(0.268)	(0.258)	(0.274)	(0.254)	(0.175)	(0.213)	(0.216)	(0.181)
Num of children	0.056	0.127	0.127	-0.035	0.169	0.103	0.115	-0.073
	(0.171)	(0.157)	(0.168)	(0.156)	(0.151)	(0.171)	(0.167)	(0.145)
$\ln(1 + R_m + R_f)$		0.557***		0.716		0.465***		-0.131
		(0.117)		(0.384)		(0.106)		(0.224)
$\ln(1 + e^{\Phi_m} + e^{\Phi_f})$			0.363				0.311	
			(0.411)				(0.410)	
term2				16.853				
				(10.417)				
$-\sigma^2_g$				-0.461**				-0.765***
				(0.149)				(0.100)
Father some coll.					0.128	0.115	0.195	0.101
					(0.217)	(0.253)	(0.228)	(0.212)
Father coll+					-0.334	-0.677**	-0.447	-0.208
					(0.212)	(0.242)	(0.247)	(0.211)
Father's age					-0.016	0.017	-0.005	0.006
					(0.020)	(0.024)	(0.021)	(0.021)
term_f								8.015
								(5.819)
term_m								-13.710*
								(6.630)
term_g								0.608
								(8.411)
_cons	1.281	-1.250	-0.075	-2.930	1.380	-0.235	0.140	1.570
	(0.765)	(0.879)	(1.714)	(1.697)	(0.769)	(0.911)	(1.711)	(1.166)
r2	0.175	0.385	0.189	0.469	0.131	0.277	0.130	0.510
N	120	94	112	94	227	155	198	155

Table G-16: Appendix Table: OLS estimates for child care/goods relative demand by child age (ALL, 4ca, 1-2 kids ages 0-12, 2002 and 2007)

	(1) Ages 5-8 b/se	(2) Ages 9-12 b/se	(3) Ages 5-8 b/se	(4) Ages 9-12 b/se	(5) Ages 5-8 b/se	(6) Ages 9-12 b/se
$\ln(\tilde{P}_c, i)$	0.332	0.874**	0.372	0.637	0.156	0.849*
	(0.265)	(0.331)	(0.288)	(0.349)	(0.280)	(0.339)
Married	1.033	0.555	0.933	-1.348	0.173	0.509
	(0.715)	(0.982)	(0.824)	(1.105)	(0.777)	(1.060)
Child's age	-0.235*	0.085	0.023	0.073	-0.135	0.054
	(0.096)	(0.096)	(0.109)	(0.109)	(0.110)	(0.114)
Mother some coll.	0.018	-0.116	0.109	0.098	0.005	0.016
	(0.217)	(0.247)	(0.232)	(0.276)	(0.226)	(0.264)
Mother coll+	-0.524*	-0.031	-0.213	0.168	-0.423	0.060
	(0.217)	(0.279)	(0.236)	(0.302)	(0.224)	(0.306)
Mother's age	0.015	-0.014	0.004	-0.022	0.007	-0.010
	(0.019)	(0.022)	(0.021)	(0.024)	(0.019)	(0.023)
Marr x Father some coll.	0.080	0.165	-0.117	0.265	0.173	0.221
	(0.259)	(0.350)	(0.283)	(0.392)	(0.268)	(0.356)
Marr x Father coll+	-0.214	-0.746*	-0.417	-1.100*	-0.431	-0.809*
	(0.269)	(0.372)	(0.293)	(0.422)	(0.307)	(0.403)
Marr x Father's age	-0.025	-0.008	-0.021	0.029	-0.008	-0.010
	(0.019)	(0.025)	(0.022)	(0.028)	(0.020)	(0.026)
Mother white	-0.226	-0.444	-0.202	-0.422	-0.054	-0.473*
	(0.177)	(0.229)	(0.185)	(0.242)	(0.188)	(0.237)
Num children age 0-5	0.002	-0.079	0.370	0.074	0.052	0.010
	(0.175)	(0.262)	(0.194)	(0.288)	(0.191)	(0.292)
Num of children	-0.007	0.177	0.033	0.207	-0.077	0.262
	(0.147)	(0.178)	(0.149)	(0.188)	(0.154)	(0.186)
$\ln(1 + R_m + Marr \cdot R_f)$			0.471***	0.474***		
			(0.098)	(0.128)		
$\ln(1 + e^{\Phi_m} + Marr \cdot e^{\Phi_f})$					0.582	0.020
					(0.371)	(0.492)
_cons	1.834	-1.005	-1.307	-1.659	0.037	-1.045
	(0.936)	(1.235)	(1.169)	(1.341)	(1.574)	(2.007)
r2	0.143	0.104	0.317	0.261	0.123	0.118
rss	208.800	225.446	108.628	135.248	170.075	196.242
N	186	161	130	119	163	147

p-value for (1) and (2) = 0.349, p-value for (3) and (4) = 0.411, p-value for (5) and (6) = 0.474

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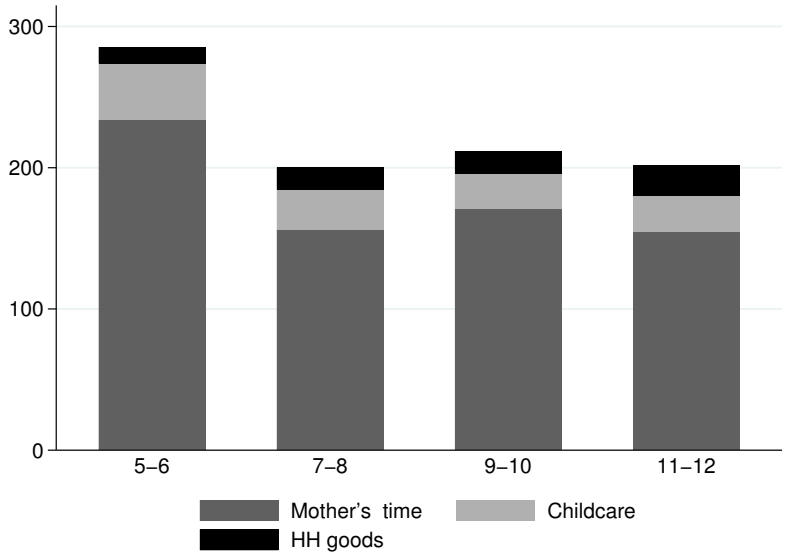

Figure 1a: Single mothers: Investment expenditures by child's age (2002 PSID).

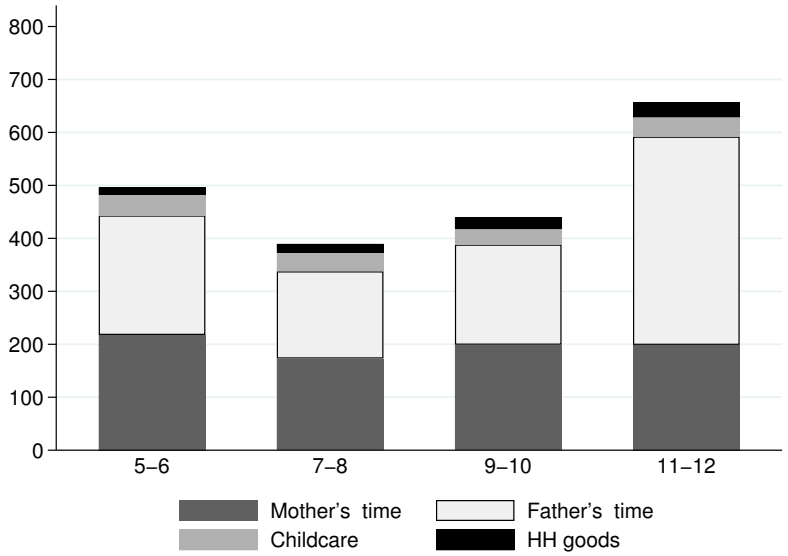

Figure 1b: Two-parent HH: Investment expenditures by child's age (2002 PSID).

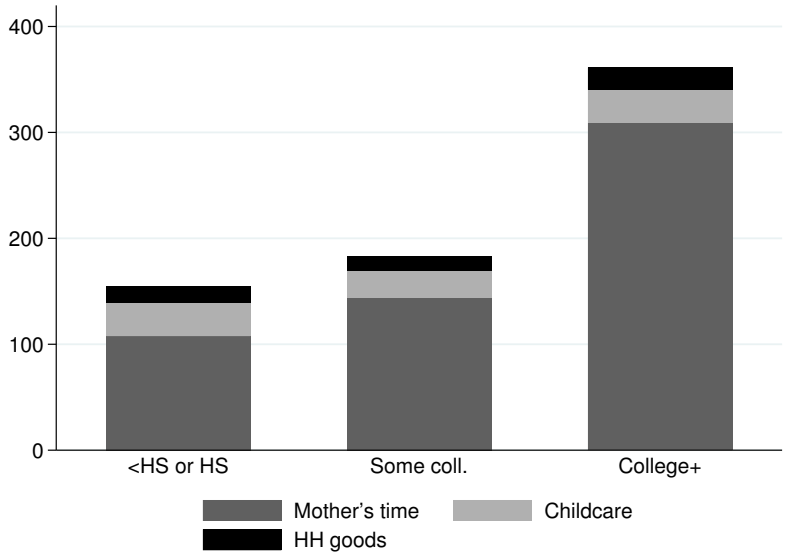

Figure 2a: Single mothers: Investment expenditures by mother's education (2002 PSID).

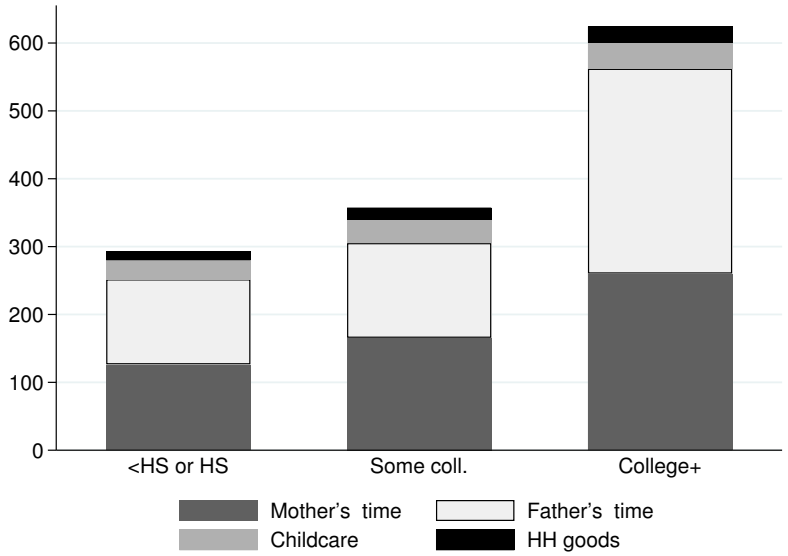

Figure 2b: Two-parent HH: Investment expenditures by mother's education (2002 PSID).

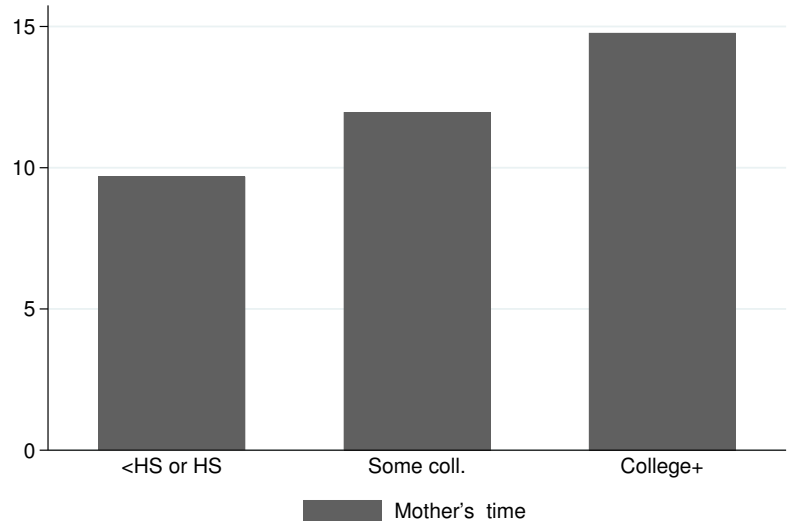

Figure 3a: Single mothers: Weekly hours with children by mother's education (2002 PSID).

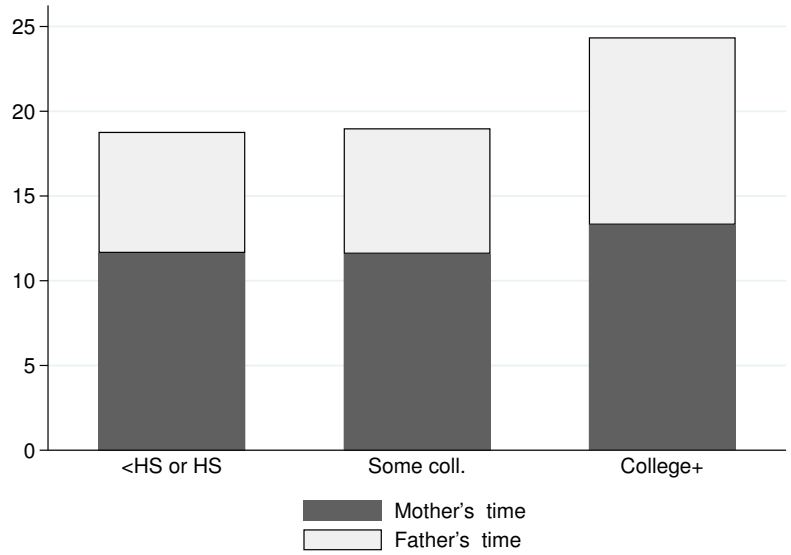

Figure 3b: Two-parent HH: Weekly hours with children by mother's education (2002 PSID).

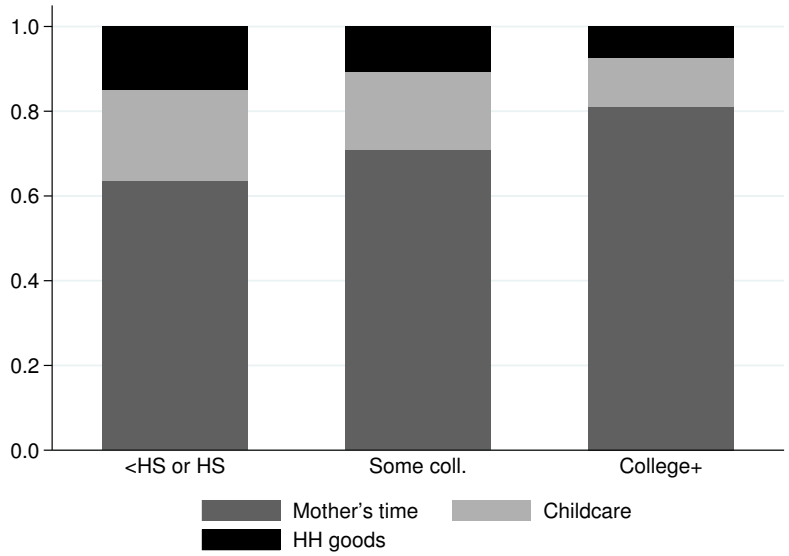

Figure 4a: Single mothers: Investment expenditures shares by mother's education (2002 PSID).

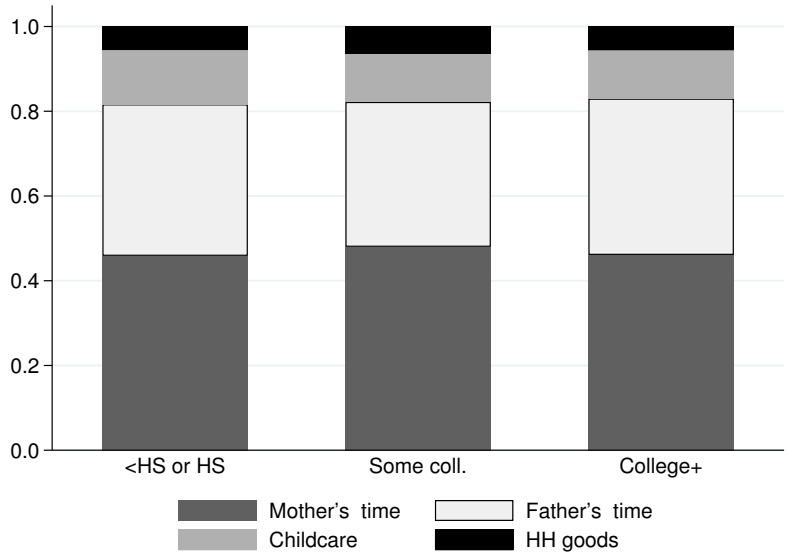

Figure 4b: Two-parent HH: Investment expenditures shares by mother's education (2002 PSID).