Direct Estimation Approach

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1 No Input Measurement Error

The specification estimated is:

$$LW_{02,i} = \log(\theta_i) + \frac{\delta_1}{\gamma} \log \left(\left(a_{m,i} \tau_{m,97,i}^{\rho} + a_{f,i} \tau_{f,97,i}^{\rho} + a_{g,i} g_{02,i}^{\rho} \right)^{\gamma/\rho} + \left(\tau_{C,97,i} + a_N \tau_{N,97,i} \right)^{\gamma} \right) + \delta_2 LW_{97,i}$$

where:

- $\tau_{C,i}$ is hours spent in center-based care
- $\tau_{N,i}$ is hours spent in any non center-based, non-relative care
- $a_{x,i} = \exp(X_i \phi_x)$ for each $x \in \{m,g\}$ and $a_{f,i} = M_i \exp(X_i \phi_f)$ where M_i is a binary variable indicating whether the mother is cohabiting or married.

Table 1: Direct Estimation Results with Fixed Elasticities

	(1)	(2)	(3)
ρ	-1.20	-0.50	-1.20
r	(0.00)	(0.00)	(0.00)
γ	-2.00	-0.50	-2.00
1	(0.00)	(0.00)	(0.00)
δ_1	0.13	0.14	0.11
01	(0.07)	(0.10)	(0.08)
δ_2	0.73	0.72	0.76
02	(0.08)	(0.08)	(0.07)
	ϕ_m		
a .		<u> </u>	
Const.	-2.87	3.12	-0.07
Married	(8.78)	(9.81)	(0.07)
	-0.78	3.50	-0.03
	(1.68)	(5.21)	(0.02)
Mother: HS	-	-	-0.02
Mother: Some Coll.			(0.06)
	-	-	-0.02
M d G II			(0.01)
Mother: Coll.	-	-	-0.01
Mal Gu			(0.01)
Mother: College+	-	-	-0.01
C1 -1 1 A			(0.02)
Child Age	-	-	-0.69
	(0.45)		
	ϕ_f : Father's Time		
Const.	1.95	5.78	-0.03
	(83.58)	(8.09)	(1.31)
	ϕ_g : Goods		
Const.	2.37	5.70	0.14
	(55.68)	(10.49)	(5.90)
Married	-0.02	0.77	0.06
	(12.23)	(8.37)	(3.94)
Child Age	-	-	1.24
0 0 -			(46.73)
	Childcare		
F1 C	1.00	1.00	1.00
Formal Care	1.00	1.00	1.00
I.C. 1.C.	(1.00)	(1.00)	(1.00)
Informal Care	1.74	8.76	0.19
	(83.95)	ϕ_{θ} : TFI	(1.88)
		φ_{θ} : IFI	
Const.	-0.35	0.96	0.00
	(2.59)	(0.90)	(0.28)
Married	0.25	0.64	0.14
	(1.78)	(0.87)	(0.09)
Mother: HS	-0.02	-0.03	-0.06
	(0.18)	(0.17)	(0.17)
Mother: Some Coll.	0.17	0.18	0.11
	(0.17)	(0.16)	(0.17)
Mother: Coll.	0.28	0.27	0.17
	(0.22)	(0.22)	(0.22)
Mother: College+	0.23	0.24	0.14
	(0.18)	(0.17)	(0.18)
Child Age	-2	-	0.05
	<u> </u>		(0.13)
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Standard errors are calculated using 50 bootstrap samples. Sample is 700 children with non-missing skills in both 1997 and 2002, non-missing time use observations (including childcare) in 1997, and non-missing goods observations in 2002.