

Online Supplement to

The Summer Parental Investment Gap? Socioeconomic Gaps in the Seasonality of Parental Expenditures and Time with School-Age Children

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1 Descriptives

Table A1: Descriptives from Consumer Expenditure Survey, 1996-2019.

	Summer Only		Full Year	
	Mean/Proportion	Std Dev	Mean/Proportion	Std Dev
Parental Expenditure (\$/month)	112.5	704.0	107.0	525.6
BA or higher	0.37		0.37	
Bottom income quintile	0.19		0.19	
2nd income quintile	0.19		0.19	
Middle income quintile	0.20		0.20	
4th income quintile	0.20		0.20	
Top income quintile	0.22		0.22	
Age	43.6	8.30	43.7	8.27
Avg. work hours	34.4	14.2	34.4	14.2
Female white	0.63		0.63	
Female black	0.13		0.13	
Female hispanic	0.13		0.13	
Female other	0.053		0.053	
Female not present	0.065		0.065	
Male white	0.55		0.56	
Male black	0.074		0.075	
Male hispanic	0.10		0.10	
Male other	0.042		0.044	
Male not present	0.23		0.22	
Grandparents present	0.051		0.051	
Number of kids ages 6-11	0.70	0.80	0.70	0.80
Number of kids ages 12-17	0.99	0.79	1.00	0.79
Observations	56420		282230	

Note: Each observation is a household-month. Households can appear in up to 2 summer months and 10 total months.

Table A2: Descriptives from American Time Use Survey, 2003-2019.

	Mean/Proportion	Std Dev
Child care (minutes / day)	59.0	89.9
Bottom income quintile	0.22	0.41
2nd income quintile	0.21	0.41
Middle income quintile	0.24	0.43
4th income quintile	0.18	0.39
Top income quintile	0.14	0.35
BA or higher	0.40	0.49
Age	43.3	7.50
non-Hispanic White	0.70	0.46
non-Hispanic Black	0.090	0.29
Hispanic	0.14	0.35
Other race	0.065	0.25
Living with partner	0.76	0.42
Grandparent in house	0.026	0.16
# children aged 6-11	0.83	0.83
# children aged 12-17	0.88	0.76
Paid work (minutes / day)	204.9	256.3
Observations	28221	

2 Main Models but with No Control Variables

Table A3: Regression Models without household controls showing differences by education

	Expenditures			Maternal Time		Paternal Time	
	(1) Summer	(2) Full Year	(3) Full Year, FE	(4) Summer	(5) Full Year	(6) Summer	(7) Full Year
BA or higher	166.4*** (8.00)	126.2*** (3.83)		21.1*** (4.23)	10.8*** (2.06)	8.02* (3.16)	13.2*** (1.59)
Summer		-8.50*** (1.68)	-6.11** (1.95)		-25.6*** (2.71)		-8.49*** (2.42)
BA or higher × Summer		41.0*** (7.90)	42.8*** (8.34)		10.3* (4.58)		-5.20 (3.67)
Observations	56420	282230	269226	3290	16687	2216	11534

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Models include year fixed effects.

Table A4: Regression Models without household controls showing differences by income

	Expenditures			Maternal Time		Paternal Time	
	(1) Summer	(2) Full Year	(3) Full Year, FE	(4) Summer	(5) Full Year	(6) Summer	(7) Full Year
Bottom quintile	-24.7** (8.18)	-22.4*** (4.00)		-8.04 (5.73)	0.84 (3.16)	2.68 (5.29)	-0.24 (2.74)
2nd quintile	-36.6*** (7.25)	-29.6*** (2.62)		-13.2* (5.80)	-0.60 (2.87)	-1.82 (4.45)	-1.17 (2.55)
4th quintile	33.1*** (8.09)	41.0*** (3.80)		4.40 (6.06)	7.21* (3.59)	4.55 (5.22)	6.43* (2.56)
Top quintile	198.6*** (13.1)	155.7*** (5.70)		7.03 (6.43)	13.0*** (3.77)	3.43 (4.61)	9.17*** (2.68)
Summer		0.64 (6.06)	4.80 (7.92)		-15.1*** (4.51)		-9.45** (3.57)
Bottom quintile × Summer		-2.12 (8.14)	-5.96 (9.75)		-8.88 (6.41)		2.92 (5.68)
2nd quintile × Summer		-7.07 (6.79)	-13.3 (8.19)		-12.6* (6.40)		-0.65 (5.03)
4th quintile × Summer		-7.45 (7.75)	-12.4 (9.55)		-2.81 (6.92)		-1.87 (5.77)
Top quintile × Summer		42.8*** (12.2)	48.7*** (13.2)		-6.00 (7.59)		-5.74 (5.25)
Observations	56420	282230	269226	3290	16687	2216	11534

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Models include year fixed effects.

Table A5: Over-time Regression Models without household controls showing differences by education

	Expenditures		Maternal Time		Paternal Time	
	(1) Summer	(2) Full Year	(3) Summer	(4) Full Year	(5) Summer	(6) Full Year
BA or higher \times Summer \times Year		1.35 (1.23)		0.57 (1.10)		-1.51 (0.77)
BA or higher \times Year	2.38 (1.27)	1.01 (0.61)	-0.97 (1.01)	-1.54*** (0.45)	-1.59* (0.70)	-0.085 (0.37)
BA or higher \times Summer		23.8 (14.4)		5.79 (11.1)		8.42 (7.32)
Summer \times Year		0.24 (0.26)		-0.85 (0.62)		0.57 (0.56)
Observations	56420	282230	3290	16687	2216	11534

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Models include year fixed effects.

Table A6: Over-time Regression Models without household controls showing differences by income

	Expenditures		Maternal Time		Paternal Time	
	(1) Summer	(2) Full Year	(3) Summer	(4) Full Year	(5) Summer	(6) Full Year
Bottom quintile × Summer × Year		-2.98*		-0.28		0.48
		(1.45)		(1.45)		(1.31)
2nd quintile × Summer × Year		-2.30*		-2.54		0.020
		(1.15)		(1.35)		(1.14)
4th quintile × Summer × Year		-1.18		-2.87*		-0.41
		(1.23)		(1.46)		(1.21)
Top quintile × Summer × Year		-0.60		-1.69		-0.39
		(2.02)		(1.57)		(1.20)
Bottom quintile × Year	-5.44***	-2.46**	-1.35	-1.07	0.76	0.28
	(1.44)	(0.75)	(1.29)	(0.66)	(1.09)	(0.63)
2nd quintile × Year	-2.64*	-0.33	-3.14*	-0.60	0.58	0.56
	(1.27)	(0.40)	(1.29)	(0.65)	(1.03)	(0.54)
4th quintile × Year	-1.60	-0.44	-4.08**	-1.21	-0.092	0.32
	(1.31)	(0.59)	(1.31)	(0.66)	(1.08)	(0.51)
Top quintile × Year	2.04	2.62**	-3.54*	-1.85**	0.44	0.83
	(2.17)	(0.86)	(1.47)	(0.66)	(1.08)	(0.55)
Bottom quintile × Summer		32.5*		-6.82		-1.77
		(13.8)		(12.8)		(11.7)
2nd quintile × Summer		19.7*		9.41		-0.53
		(9.50)		(12.1)		(10.4)
4th quintile × Summer		6.25		21.7		1.74
		(11.9)		(13.7)		(12.2)
Top quintile × Summer		49.5*		8.29		-2.42
		(20.7)		(15.2)		(11.1)
Summer × Year		2.41*		1.01		-0.047
		(1.06)		(0.99)		(0.73)
Observations	56420	282230	3290	16687	2216	11534

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Models include year fixed effects.

Table A7: Regression Models by Age of Child without household controls showing differences by education

	(1) Expenditures	(2) Maternal Time	(3) Paternal Time
BA or higher × Children ages 12-17	−3.42 (19.0)	−3.15 (9.72)	−24.1** (8.47)
BA or higher	177.1*** (13.3)	20.3* (8.59)	18.3* (7.65)
Children ages 12-17	−34.0*** (4.16)	−44.0*** (5.60)	−19.1*** (5.14)
Observations	42040	2440	1653

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Models include year fixed effects.

Table A8: Regression Models by Age of Child without household controls showing differences by income

	(1) Expenditures	(2) Maternal Time	(3) Paternal Time
Children ages 12-17 × Bottom quintile		9.73 (13.8)	-11.6 (12.4)
Children ages 12-17 × 2nd quintile		3.23 (12.7)	-8.14 (10.1)
Children ages 12-17 × 4th quintile		24.6 (14.1)	-23.9 (12.4)
Children ages 12-17 × Top quintile		-21.2 (17.1)	-37.2*** (10.7)
Bottom quintile		-9.24 (12.1)	10.9 (9.07)
2nd quintile		-10.4 (11.7)	3.71 (8.03)
4th quintile		-10.0 (10.8)	19.9 (10.5)
Top quintile		24.5 (15.4)	26.3** (9.29)
Children ages 12-17	-34.0*** (4.16)	-50.8*** (9.74)	-14.7* (6.91)
Observations	42040	2440	1653

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Models include year fixed effects.

3 Main Models but with Income and Education in Same Model

Table A9: Regression Models with Income and Education in Same Models

	Expenditures			Maternal Time		Paternal Time	
	(1) Summer	(2) Full Year	(3) Full Year, FE	(4) Summer	(5) Full Year	(6) Summer	(7) Full Year
BA or higher	96.6*** (7.53)	68.7*** (3.72)		16.9*** (4.61)	9.01*** (2.10)	6.96 (4.09)	9.99*** (1.89)
Bottom quintile	-12.5 (10.2)	-9.70 (4.98)		-4.60 (5.99)	-1.77 (3.39)	0.47 (5.62)	-2.81 (2.95)
2nd quintile	-23.3** (8.13)	-17.9*** (2.93)		-4.55 (5.67)	0.16 (2.79)	-2.16 (4.85)	-1.36 (2.61)
4th quintile	12.3 (8.43)	26.0*** (3.95)		3.23 (5.84)	4.99 (3.35)	3.28 (4.98)	4.32 (2.45)
Top quintile	143.6*** (13.3)	115.5*** (5.71)		4.59 (6.33)	7.22* (3.56)	-1.33 (4.27)	4.15 (2.81)
Summer		-7.87 (5.33)	91.8 (62.3)		-24.2*** (3.96)		-8.58* (4.20)
BA or higher × Summer		32.0*** (8.15)			6.63 (4.51)		-3.83 (4.45)
Bottom quintile × Summer		0.34 (8.15)	-9.93 (12.6)		-0.85 (5.71)		2.24 (5.91)
2nd quintile × Summer		-3.96 (6.53)	-15.6 (9.64)		-3.46 (5.91)		-0.64 (5.28)
4th quintile × Summer		-13.5 (8.33)	-11.7 (9.05)		-2.34 (6.52)		-1.98 (5.48)
Top quintile × Summer		28.2* (12.7)	48.8*** (12.8)		-2.91 (7.28)		-5.50 (5.15)
Observations	56420	282230	269226	3290	16687	2216	11534

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Household controls and year fixed effects included in all models. Fixed effects model also includes interactions between summer and each control variable.

Table A10: Regression Models of Parental Investments Over Time with Income and Education in Same Models

	Expenditures		Maternal Time		Paternal Time	
	(1) Summer	(2) Full Year	(3) Summer	(4) Full Year	(5) Summer	(6) Full Year
Bottom quintile × Year	-3.56*	-0.87	-1.00	-1.23	0.58	0.057
	(1.53)	(0.87)	(1.24)	(0.64)	(1.18)	(0.63)
2nd quintile × Year	-2.14	-0.21	-2.81*	-0.86	0.096	0.44
	(1.14)	(0.39)	(1.17)	(0.64)	(1.03)	(0.55)
4th quintile × Year	-2.24	-0.73	-3.38**	-0.95	0.43	0.053
	(1.45)	(0.61)	(1.23)	(0.64)	(1.00)	(0.48)
Top quintile × Year	1.32	2.55**	-2.82*	-1.06	1.04	0.51
	(2.31)	(0.88)	(1.40)	(0.63)	(1.03)	(0.58)
BA or higher × Year	0.28	-0.89	-0.36	-1.55**	-1.69*	-0.27
	(1.29)	(0.70)	(0.99)	(0.52)	(0.70)	(0.41)
Bottom quintile × Summer		29.5*		-2.27		-4.34
		(13.6)		(11.6)		(12.2)
2nd quintile × Summer		19.6*		14.3		2.35
		(9.21)		(11.4)		(9.96)
4th quintile × Summer		3.79		17.8		-4.27
		(12.4)		(12.8)		(10.9)
Top quintile × Summer		42.7*		11.0		-10.6
		(21.1)		(14.2)		(10.8)
BA or higher × Summer		15.2		-2.09		8.77
		(14.6)		(10.2)		(7.45)
Summer × Year		1.75		-0.16		0.20
		(0.90)		(0.92)		(0.87)
Bottom quintile × Summer × Year		-2.43		0.23		0.63
		(1.44)		(1.32)		(1.35)
2nd quintile × Summer × Year		-2.03				
		(1.08)				
4th quintile × Summer × Year		-1.47				
		(1.35)				
Top quintile × Summer × Year		-1.17				
		(2.15)				
BA or higher × Summer × Year		1.23		1.16		-1.33
		(1.33)		(1.06)		(0.78)
Summer × 2nd quintile × Year				-1.94		-0.34
				(1.26)		(1.10)
Summer × 4th quintile × Year				-2.34		0.29
				(1.39)		(1.12)
Summer × Top quintile × Year				-1.59		0.51
				(1.54)		(1.20)
Observations	56420	282230	3290	16687	2216	11534

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Main effects for all interactions terms includes in all models. Household controls included in all models.

Table A11: Regression Models of Summer Parental Investments By Age of Child with Income and Education in Same Models

	(1) Expenditures	(2) Maternal Time	(3) Paternal Time
BA or higher	87.4*** (11.6)	17.2 (9.11)	14.5 (8.57)
Bottom quintile	-16.6 (12.5)	-1.92 (11.7)	14.9 (9.48)
2nd quintile	-28.1** (8.67)	-4.38 (11.6)	5.88 (7.88)
4th quintile	37.0** (11.6)	-15.3 (10.7)	17.1 (10.4)
Top quintile	199.8*** (22.5)	18.9 (15.7)	18.6 (9.56)
Children ages 12-17	-47.2*** (12.5)	-47.1** (15.8)	2.10 (10.8)
BA or higher × Children ages 12-17	21.3 (18.1)	-5.66 (9.62)	-20.8* (9.31)
Bottom quintile × Children ages 12-17	8.33 (18.2)	5.39 (13.0)	-18.8 (12.4)
2nd quintile × Children ages 12-17	5.75 (14.8)	5.04 (11.8)	-12.4 (9.97)
4th quintile × Children ages 12-17	-30.7 (18.8)	29.6* (13.3)	-20.3 (12.9)
Top quintile × Children ages 12-17	-67.1* (31.2)	-19.5 (17.1)	-28.4** (11.0)
Observations	42040	2440	1653

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019; American Time Use Survey, 2003-2019.

Household controls included in all models.

4 CEX Specific Robustness Models

4.1 Not Dividing Parental Investments of Money by the Number of Children

Table A12: Regression Models of Parental Investments of Money Without Dividing Investments by the Number of Children

	Summer Only		Full Year		FE	
	(1)	(2)	(3)	(4)	(5)	(6)
BA or higher	216.5*** (12.3)		164.5*** (5.65)			
Bottom quintile		-31.9 ⁺ (19.1)		-18.4** (6.46)		
2nd quintile		-51.9** (16.3)		-37.2*** (4.39)		
4th quintile		45.2*** (13.5)		57.7*** (5.31)		
Top quintile		283.1*** (20.1)		229.4*** (8.98)		
Summer			-13.7*** (2.11)	1.45 (11.7)	58.3 (77.3)	76.8 (76.6)
BA or higher × Summer			58.7*** (12.5)		58.0*** (13.3)	
Bottom quintile × Summer				-7.54 (13.3)		-20.0 (22.0)
2nd quintile × Summer				-11.8 (12.3)		-25.4 (18.9)
4th quintile × Summer				-11.7 (13.9)		-19.8 (15.4)
Top quintile × Summer				56.9** (20.2)		66.4** (20.5)
Observations	56420	56420	282230	282230	269226	269226

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019.

Household controls and year fixed effects included in all models. Fixed effects model also includes interactions between summer and each control variable.

Table A13: Regression Models of Parental Investments of Money Over Time Without Dividing Investments by the Number of Children

	Summer Only		Full Year	
	(1)	(2)	(3)	(4)
BA or higher × Year	2.995 (1.55)		0.694 (0.76)	
BA or higher × Summer			27.88 (1.35)	
BA or higher × Summer × Year			2.403 (1.26)	
Bottom quintile × Year		-8.763** (-2.81)		-3.497*** (-3.49)
2nd quintile × Year		-4.465 (-1.83)		-0.344 (-0.59)
4th quintile × Year		-3.365 (-1.20)		-1.101 (-1.33)
Top quintile × Year		2.256 (0.63)		4.454** (3.07)
Bottom quintile × Summer				48.39* (2.25)
2nd quintile × Summer				39.27* (2.15)
4th quintile × Summer				12.77 (0.61)
Top quintile × Summer				79.49** (2.62)
Bottom quintile × Summer × Year				-4.799 (-1.87)
2nd quintile × Summer × Year				-4.386 (-1.84)
4th quintile × Summer × Year				-2.108 (-0.83)
Top quintile × Summer × Year				-1.956 (-0.58)
Summer × Year			0.659* (2.11)	4.576* (1.98)
Observations	56420	56420	282230	282230

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019.

Main effects for all interactions terms includes in all models. Household controls included in all models.

Table A14: Regression Models of Summer Parental Investments of Money By Age of Child Without Dividing Investments by the Number of Children

	(1)	(2)
BA or higher × Children ages 12-17	-21.1 (26.2)	
Bottom quintile × Children ages 12-17		4.67 (24.6)
2nd quintile × Children ages 12-17		3.95 (21.6)
4th quintile × Children ages 12-17		-40.0 (25.7)
Top quintile × Children ages 12-17		-125.5** (44.4)
BA or higher	204.8*** (18.2)	
Bottom quintile		-26.8+ (14.6)
2nd quintile		-48.1*** (10.4)
4th quintile		72.1*** (13.6)
Top quintile		342.0*** (34.5)
Children ages 12-17	-61.3*** (6.11)	-51.5* (20.3)
Observations	42040	42040

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019.

Household controls included in all models.

4.2 Fixed Effects Models with Households that Change Income or Education

Table A15: Fixed Effects Regression Models of Parental Investments of Money without excluding Households that Change Income or Education

	(1)	(2)
BA or higher	-41.5** (15.8)	
Summer × BA or higher	38.2*** (7.79)	
Bottom quintile		14.9 (22.2)
2nd quintile		16.7 (21.1)
4th quintile		-12.7 (14.6)
Top quintile		-50.4+ (25.8)
Summer × Bottom quintile		-8.13 (11.7)
Summer × 2nd quintile		-11.7 (9.32)
Summer × 4th quintile		-13.9 (8.88)
Summer × Top quintile		44.0*** (12.6)
Summer	65.6 (60.3)	71.9 (61.0)
Observations	282230	282230

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: Consumer Expenditure Survey, 1996-2019.

Fixed effects model also includes interactions between summer and each control variable.

5 ATUS-Specific Robustness Models

5.1 Alternate Dependent Variables

Table A16: Gaps in Summer Maternal Time with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	12.36*** (3.55)		15.00*** (4.06)		4.742* (2.04)		21.35 (1.96)	
Bottom quintile		-4.859 (-0.93)		-8.359 (-1.70)		-1.495 (-0.45)		-25.22 (-1.44)
2nd quintile		-4.913 (-1.13)		-4.804 (-0.97)		-2.917 (-1.04)		-23.45 (-1.45)
4th quintile		1.829 (0.49)		5.638 (1.12)		0.628 (0.24)		-22.80 (-1.41)
Top quintile		3.598 (0.92)		11.94* (2.07)		-2.183 (-0.74)		-6.020 (-0.31)
Household controls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Observations	3290	3290	3290	3290	3290	3290	3290	3290

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: American Time Use Survey, 2003-2019.

Individual and household controls included in all models.

Table A17: Gaps in Summer Paternal Time with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	1.628 (0.61)		5.634 (1.93)		1.739 (0.90)		1.022 (0.09)	
Bottom quintile		1.061 (0.30)		-4.820 (-1.05)		3.462 (1.33)		-37.21* (-2.16)
2nd quintile		-0.261 (-0.08)		-4.740 (-1.19)		1.536 (0.66)		29.77 (1.74)
4th quintile		2.593 (0.74)		2.433 (0.54)		2.210 (1.12)		3.200 (0.20)
Top quintile		-0.0486 (-0.02)		0.207 (0.06)		1.373 (0.59)		-10.20 (-0.66)
Household controls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Observations	2216	2216	2216	2216	2216	2216	2216	2216

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: American Time Use Survey, 2003-2019.

Individual and household controls included in all models.

Table A18: Seasonality of Gaps in Maternal Time with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	8.345*** (5.85)		7.844*** (4.98)		3.372** (3.15)		34.11*** (7.81)	
Bottom quintile		-2.108 (-0.92)		-6.714** (-2.71)		2.442 (1.48)		-25.16*** (-3.54)
2nd quintile		-0.960 (-0.46)		-2.316 (-0.99)		0.969 (0.67)		-10.49 (-1.68)
4th quintile		2.880 (1.25)		5.998* (2.26)		0.416 (0.24)		8.889 (1.27)
Top quintile		5.282* (2.10)		6.538* (2.39)		3.494 (1.89)		-1.019 (-0.15)
Bottom quintile × Summer		-2.063 (-0.48)		-1.582 (-0.32)		-1.716 (-0.56)		-1.479 (-0.09)
2nd quintile × Summer		-3.660 (-0.85)		-2.544 (-0.48)		-2.440 (-0.81)		-21.06 (-1.23)
4th quintile × Summer		-0.777 (-0.18)		-0.807 (-0.14)		-0.0971 (-0.03)		-33.73 (-1.91)
Top quintile × Summer		-0.994 (-0.21)		5.824 (0.93)		-6.508 (-1.81)		-10.96 (-0.56)
Summer	-16.90*** (-10.21)	-13.69*** (-4.55)	-14.05*** (-6.65)	-11.15*** (-3.36)	-11.89*** (-9.66)	-9.990*** (-4.67)	34.34*** (4.73)	42.74*** (3.84)
BA or higher × Summer	3.898 (1.36)		6.414 (1.70)		0.0664 (0.03)		-12.19 (-1.08)	
Household controls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Observations	16687	16687	16687	16687	16687	16687	16687	16687

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: American Time Use Survey, 2003-2019.

Individual and household controls included in all models.

Table A19: Seasonality of Gaps in Paternal Time with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	7.857*** (6.91)		7.566*** (5.81)		4.762*** (5.49)		23.69*** (4.86)	
Bottom quintile		-2.403 (-1.29)		-5.520* (-2.51)		0.571 (0.30)		-28.06*** (-3.80)
2nd quintile		-1.213 (-0.73)		-1.873 (-0.97)		-0.805 (-0.55)		-10.75 (-1.55)
4th quintile		3.600* (2.36)		6.760** (3.24)		-0.201 (-0.17)		4.001 (0.58)
Top quintile		5.313** (2.89)		8.111*** (3.75)		0.293 (0.24)		-1.715 (-0.23)
Bottom quintile × Summer		3.342 (0.88)		1.267 (0.27)		1.600 (0.49)		-0.00486 (-0.00)
2nd quintile × Summer		1.547 (0.46)		-2.253 (-0.52)		2.101 (0.78)		45.16* (2.39)
4th quintile × Summer		-1.539 (-0.40)		-5.753 (-1.17)		2.714 (1.18)		-1.501 (-0.09)
Top quintile × Summer		-5.421 (-1.65)		-9.007* (-2.08)		1.813 (0.74)		-8.562 (-0.51)
Summer	-3.422 (-1.83)	-5.660** (-2.61)	-4.264* (-2.04)	-2.863 (-0.87)	-4.481*** (-3.63)	-6.755*** (-4.30)	18.95* (2.51)	1.987 (0.18)
BA or higher × Summer	-6.678* (-2.49)		-3.843 (-1.28)		-2.123 (-1.04)		-24.25* (-2.18)	
Household controls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Observations	11534	11534	11534	11534	11534	11534	11534	11534

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: American Time Use Survey, 2003-2019.

Individual and household controls included in all models.

Table A20: Time Trends in Gaps in Summer Maternal Time with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	14.92*		25.02**		3.340		54.33*	
	(2.54)		(3.22)		(0.74)		(2.37)	
Bottom quintile		6.199		-3.358		2.054		-89.05*
		(0.90)		(-0.35)		(0.42)		(-2.53)
2nd quintile		15.87*		14.63		1.820		-55.85
		(2.31)		(1.63)		(0.33)		(-1.91)
4th quintile		24.66***		27.96**		7.775		-32.99
		(3.39)		(2.99)		(1.47)		(-1.21)
Top quintile		23.59**		29.37**		5.230		-41.75
		(2.77)		(2.80)		(0.66)		(-1.22)
Bottom quintile × Year		-1.498		-0.631		-0.564		8.108*
		(-1.57)		(-0.57)		(-1.00)		(2.11)
2nd quintile × Year		-2.490**		-2.267*		-0.629		4.106
		(-2.88)		(-2.21)		(-1.02)		(1.32)
4th quintile × Year		-2.643**		-2.729**		-0.790		1.246
		(-2.98)		(-2.83)		(-1.34)		(0.43)
Top quintile × Year		-2.251*		-2.041		-0.834		3.875
		(-2.25)		(-1.83)		(-1.08)		(1.05)
Year	-0.332	1.551*	0.0277	1.292	-0.367	0.352	1.425	-3.530
	(-0.96)	(2.10)	(0.06)	(1.68)	(-1.78)	(0.81)	(0.85)	(-1.55)
BA or higher × Year	-0.158		-1.126		0.252		-4.150	
	(-0.24)		(-1.36)		(0.61)		(-1.67)	
Household controls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Observations	3290	3290	3290	3290	3290	3290	3290	3290

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: American Time Use Survey, 2003-2019.

Individual and household controls included in all models.

Table A21: Time Trends in Gaps in Summer Paternal Time with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	11.97** (2.83)		15.07** (2.89)		7.740* (2.35)		4.958 (0.21)	
Bottom quintile		-7.995 (-1.03)		-8.547 (-0.93)		-3.489 (-0.62)		-43.39 (-1.04)
2nd quintile		-4.524 (-0.66)		-10.71 (-1.34)		3.619 (0.72)		18.29 (0.49)
4th quintile		-0.954 (-0.14)		0.135 (0.02)		4.973 (0.93)		-5.268 (-0.16)
Top quintile		-1.216 (-0.19)		-1.177 (-0.15)		2.424 (0.52)		6.431 (0.18)
Bottom quintile × Year		0.842 (0.99)		0.277 (0.28)		0.653 (1.10)		0.284 (0.07)
2nd quintile × Year		0.471 (0.61)		0.648 (0.71)		-0.274 (-0.54)		1.212 (0.29)
4th quintile × Year		0.492 (0.66)		0.229 (0.27)		-0.220 (-0.41)		1.100 (0.30)
Top quintile × Year		0.300 (0.42)		0.190 (0.22)		0.0277 (0.06)		-1.567 (-0.39)
Year	0.683 (1.75)	-0.0759 (-0.17)	0.708 (1.72)	0.123 (0.20)	0.174 (0.66)	-0.0458 (-0.15)	1.243 (0.64)	1.292 (0.53)
BA or higher × Year	-0.930 (-1.96)		-0.923 (-1.69)		-0.538 (-1.66)		0.149 (0.06)	
Household controls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Observations	2216	2216	2216	2216	2216	2216	2216	2216

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: American Time Use Survey, 2003-2019.

Individual and household controls included in all models.

Table A22: Time Trends in Seasonality of Gaps in Maternal Time with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	17.47*** (5.96)		20.18*** (5.97)		4.960* (2.50)		43.39*** (5.13)	
Summer × BA or higher	-2.573 (-0.39)		4.934 (0.56)		-2.693 (-0.55)		14.37 (0.58)	
Bottom quintile		4.798 (1.36)		-4.145 (-1.04)		6.144* (2.05)		-34.13** (-3.00)
2nd quintile		2.666 (0.71)		3.451 (0.79)		-0.0265 (-0.01)		-15.64 (-1.16)
4th quintile		12.40*** (3.33)		10.82* (2.52)		5.704 (1.78)		9.091 (0.67)
Top quintile		16.56*** (4.42)		20.13*** (4.28)		4.594 (1.41)		12.90 (0.97)
Bottom quintile × Year		-0.914* (-2.29)		-0.281 (-0.60)		-0.571* (-2.00)		1.027 (0.81)
2nd quintile × Year		-0.499 (-1.24)		-0.663 (-1.34)		0.0288 (0.09)		0.582 (0.37)
4th quintile × Year		-1.109** (-2.88)		-0.611 (-1.22)		-0.583 (-1.85)		0.106 (0.07)
Top quintile × Year		-1.244** (-3.04)		-1.588** (-2.97)		-0.0314 (-0.09)		-1.565 (-1.10)
Summer × Bottom quintile		3.096 (0.38)		1.955 (0.20)		-2.464 (-0.42)		-61.37 (-1.72)
Summer × 2nd quintile		14.13 (1.86)		11.49 (1.14)		3.582 (0.61)		-47.09 (-1.48)
Summer × 4th quintile		13.05 (1.63)		17.73 (1.67)		1.146 (0.18)		-36.32 (-1.17)
Summer × Top quintile		7.505 (0.82)		9.211 (0.81)		-0.110 (-0.01)		-47.58 (-1.23)
Summer × Bottom quintile × Year		-0.610 (-0.59)		-0.424 (-0.38)		0.0883 (0.13)		7.087 (1.75)
Summer × 2nd quintile × Year		-2.009* (-2.14)		-1.587 (-1.41)		-0.668 (-0.98)		3.205 (0.89)
Summer × 4th quintile × Year		-1.561 (-1.63)		-2.141 (-1.92)		-0.103 (-0.15)		0.403 (0.13)
Summer × Top quintile × Year		-0.964 (-0.89)		-0.360 (-0.29)		-0.738 (-0.83)		4.316 (1.06)
Year	0.388* (1.98)	0.837** (3.09)	0.946*** (3.99)	1.040** (3.08)	-0.274 (-1.78)	-0.00706 (-0.04)	0.450 (0.67)	0.141 (0.14)
Summer	-10.58** (-3.17)	-19.57*** (-3.50)	-5.651 (-1.43)	-12.62 (-1.86)	-11.57*** (-4.49)	-12.95** (-3.23)	24.82 (1.67)	68.20** (2.85)
Summer × Year	-0.744 (-1.94)	0.707 (0.91)	-0.994 (-1.95)	0.192 (0.24)	-0.0318 (-0.12)	0.351 (0.72)	1.165 (0.61)	-3.080 (-1.21)
BA or higher × Year	-0.942** (-3.15)		-1.401*** (-3.97)		-0.0792 (-0.39)		-1.139 (-1.16)	
Summer × BA or higher × Year	0.803 (1.15)		0.290 (0.32)		0.316 (0.65)		-2.990 (-1.08)	
Household controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Observations	16687	16687	16687	16687	16687	16687	16687	16687

Table A23: Time Trends in Seasonality of Gaps in Paternal Time with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	11.04*** (5.21)		10.66*** (4.43)		4.903* (2.47)		44.43*** (4.64)	
Summer × BA or higher	-0.133 (-0.03)		2.468 (0.47)		2.836 (0.72)		-41.58 (-1.65)	
Bottom quintile		-4.749 (-1.39)		-4.565 (-1.22)		-2.509 (-0.76)		-58.09*** (-3.67)
2nd quintile		-4.927 (-1.45)		-5.043 (-1.42)		-2.628 (-0.92)		-26.91* (-2.27)
4th quintile		2.106 (0.68)		6.179 (1.82)		0.714 (0.28)		-18.95 (-1.48)
Top quintile		1.146 (0.37)		7.490* (2.06)		-2.203 (-0.98)		-4.254 (-0.28)
Bottom quintile × Year		0.153 (0.40)		-0.220 (-0.49)		0.263 (0.69)		3.081 (1.93)
2nd quintile × Year		0.379 (0.98)		0.294 (0.73)		0.186 (0.58)		1.777 (1.41)
4th quintile × Year		0.200 (0.58)		0.0635 (0.17)		-0.0794 (-0.31)		2.798* (1.97)
Top quintile × Year		0.515 (1.38)		0.0875 (0.20)		0.326 (1.25)		0.695 (0.42)
Summer × Bottom quintile		-3.923 (-0.46)		-4.039 (-0.40)		-2.479 (-0.37)		22.97 (0.54)
Summer × 2nd quintile		0.672 (0.09)		-5.191 (-0.61)		6.041 (1.05)		46.48 (1.20)
Summer × 4th quintile		-3.679 (-0.49)		-6.409 (-0.68)		4.331 (0.75)		9.496 (0.27)
Summer × Top quintile		-3.489 (-0.49)		-10.23 (-1.19)		4.576 (0.87)		6.962 (0.18)
Summer × Bottom quintile × Year		0.792 (0.85)		0.582 (0.52)		0.413 (0.59)		-2.463 (-0.61)
Summer × 2nd quintile × Year		0.116 (0.14)		0.364 (0.37)		-0.467 (-0.78)		-0.0141 (-0.00)
Summer × 4th quintile × Year		0.303 (0.37)		0.109 (0.11)		-0.137 (-0.23)		-1.338 (-0.33)
Summer × Top quintile × Year		-0.204 (-0.25)		0.134 (0.14)		-0.300 (-0.52)		-1.855 (-0.44)
Year	0.490** (2.99)	0.226 (0.95)	0.478** (2.59)	0.414 (1.54)	0.0373 (0.38)	-0.0471 (-0.25)	2.369*** (3.58)	0.241 (0.25)
Summer	-5.290 (-1.46)	-2.798 (-0.58)	-6.538 (-1.79)	-0.336 (-0.05)	-5.530* (-2.10)	-6.732* (-2.05)	28.50 (1.50)	-3.919 (-0.16)
Summer × Year	0.201 (0.46)	-0.347 (-0.67)	0.265 (0.59)	-0.283 (-0.42)	0.114 (0.38)	-0.00844 (-0.02)	-1.043 (-0.49)	0.713 (0.29)
BA or higher × Year	-0.280 (-1.12)		-0.242 (-0.93)		0.0219 (0.10)		-2.004* (-2.08)	
Summer × BA or higher × Year	-0.674 (-1.25)		-0.667 (-1.12)		-0.531 (-1.40)		1.971 (0.70)	
Household controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Observations	11534	11534	11534	11534	11534	11534	11534	11534

Table A24: Gaps in Summer Maternal Time by Age of Child with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	15.64*		13.74		4.411		-2.891	
	(2.02)		(1.93)		(1.06)		(-0.16)	
Children ages 12-17 × BA or higher	-7.925		-4.198		-1.032		6.071	
	(-1.03)		(-0.55)		(-0.23)		(0.28)	
Bottom quintile		-11.42		-3.264		-4.913		-23.95
		(-1.06)		(-0.34)		(-0.78)		(-0.87)
2nd quintile		-9.221		-2.769		-4.779		-49.02
		(-0.89)		(-0.29)		(-0.79)		(-1.79)
4th quintile		-14.65		-4.708		-7.501		-48.00
		(-1.77)		(-0.55)		(-1.56)		(-1.77)
Top quintile		8.302		31.40*		-7.369		-57.04
		(0.72)		(2.29)		(-1.45)		(-1.50)
Children ages 12-17 × Bottom quintile		15.42		2.888		5.835		56.45
		(1.43)		(0.27)		(0.90)		(1.63)
Children ages 12-17 × 2nd quintile		9.252		0.261		5.884		54.27
		(0.89)		(0.03)		(0.91)		(1.59)
Children ages 12-17 × 4th quintile		25.86**		17.40		11.23*		52.90
		(2.66)		(1.48)		(2.12)		(1.72)
Children ages 12-17 × Top quintile		-6.267		-27.24		6.309		62.27
		(-0.50)		(-1.84)		(1.20)		(1.42)
Children ages 12-17	-51.57***	-64.87***	-28.24*	-31.52*	-14.20**	-20.44**	-398.8***	-441.9***
	(-5.43)	(-5.25)	(-2.44)	(-2.20)	(-2.59)	(-3.29)	(-12.42)	(-12.56)
Household controls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Observations	2440	2440	2440	2440	2440	2440	2440	2440

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: American Time Use Survey, 2003-2019.

Individual and household controls included in all models.

Table A25: Gaps in Summer Paternal Time by Age of Child with Alternative Dependent Variables

	Child care / kid		Basic care + mgmt		Play + teaching		Primary + secondary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
BA or higher	11.16 (1.96)		15.08** (2.80)		2.515 (0.54)		16.23 (0.81)	
Children ages 12-17 × BA or higher	-17.58** (-2.81)		-21.13** (-3.27)		-3.417 (-0.77)		-33.29 (-1.36)	
Bottom quintile		8.057 (1.16)		0.187 (0.03)		10.49 (1.63)		-18.60 (-0.53)
2nd quintile		3.948 (0.64)		-1.738 (-0.34)		5.347 (1.05)		46.81 (1.64)
4th quintile		12.51 (1.55)		15.25 (1.91)		4.527 (0.84)		46.88 (1.69)
Top quintile		17.79* (2.47)		18.63* (2.49)		6.960 (1.34)		16.74 (0.56)
Children ages 12-17 × Bottom quintile		-7.637 (-0.87)		-3.592 (-0.37)		-8.871 (-1.20)		-20.56 (-0.51)
Children ages 12-17 × 2nd quintile		-6.567 (-0.88)		-4.652 (-0.63)		-4.267 (-0.77)		-23.55 (-0.58)
Children ages 12-17 × 4th quintile		-14.51 (-1.43)		-20.11 (-1.94)		-4.102 (-0.69)		-74.93* (-2.19)
Children ages 12-17 × Top quintile		-26.75*** (-3.30)		-29.55*** (-3.31)		-8.425 (-1.52)		-42.93 (-1.12)
Children ages 12-17	-23.40** (-2.88)	-19.92* (-2.51)	-3.544 (-0.44)	-2.014 (-0.25)	-5.857 (-1.00)	-1.876 (-0.33)	-296.2*** (-8.38)	-274.4*** (-7.11)
Household controls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
Observations	1653	1653	1653	1653	1653	1653	1653	1653

Standard errors in parentheses

* $p < .05$, ** $p < .01$, *** $p < .001$

Source: American Time Use Survey, 2003-2019.

Individual and household controls included in all models.