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Paternal Part-Time Employment and Fathers' Long-Term Involvement in Child Care and Housework

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ONLINE APPENDIX

Table OA1. *Counts and Percentages of Observation Periods for Fathers in the Sample*

(N = 8,915)

Observation periods	n	%
2	1,813	20.34
3	1,394	15.64
4	1,025	11.50
5	899	10.08
6	888	9.96
7	896	10.05
8	354	3.97
9	291	3.26
10	250	2.80
11	240	2.69
12	188	2.11
13	167	1.87
14	141	1.58
15	99	1.11
16	90	1.01
17	66	0.74
18	42	0.47
19	37	0.42
20	21	0.24
21	6	0.07
22	4	0.04
23	3	0.03
26	1	0.01

Table OA2. *Counts and Percentages of Fathers' Entry Points into the Sample* (N = 8,915)

	n	%
In 1991	1,264	14
In the year their sample was added to the SOEP	3,950	44
Later	3,701	42
Reason for entering later^a		
Entered when child was born	1,204	14
Not working, in education or training in earlier observation periods	545	6
Missing values in earlier observation periods	1,212	14
Total	8,915	100

^a Possible other reasons include among others that fathers moved in with a woman who already had children, were not the head of household or partner to the head of household at an earlier interview, or did not complete the questionnaire in previous observation periods.

Table OA3. *Counts and Percentages of Fathers' Exit Points from the Sample* (N = 8,915)

	n	%
Last observed in 2016	2,428	27
Dropped out of the SOEP	3,203	36
Still in the SOEP but left sample	3,284	37
Reasons for leaving the sample^a		
Youngest child turned 17	1,680	19
Father turned 55	447	5
Not working in later years of observation	453	5
Missing values in later years of observation	688	8
Total	8,915	100

^a Possible other reasons include among others that the couple separated, were no longer head of household or partner of the head of household or did not complete the questionnaire in the following year (though did not drop out of the SOEP completely).

Table OA4. *Gaps in the Observation Period* (N = 8,915)

	n	%
No Gap	5,772	65
Gap	3,143	35
Reason for gap^a		
Missing values	1,644	18
Not working	868	10
Changed partner	110	1
Total	8,915	100

^a Possible other reasons include among others that fathers were not the head of household or partner to the head of household or did not complete the questionnaire.

Note: Unless fathers did not complete the questionnaire, information on fathers' employment histories during gap-years are included in the indicator on previous part-time employment experience.

Table OA5. *Case Numbers by the Combination of Fathers' and their Partners' Employment Status* (N=8,915)

Variable	Part-time employment sample			Full-time employment sample
	Before part-time	During part-time	After part-time	Never part-time
	N	N	N	N
Partner not employed	578	368	527	17,671
Partner part-time employed	349	356	695	19,066
Partner full-time employed	344	427	643	10,197
Person-years	1,280	1,151	1,865	46,934
Persons		758		8,157

Table OA6. *Descriptive Statistics on Fathers' Involvement in Child Care and Housework in Western Germany: Estimated Means and Standard Deviations for Part-Time (N = 541) and Full-Time (N = 6,444) Employment Samples*

Variable	Part-time employment sample						Full-time employment sample	
	Before part-time		During part-time		After part-time		Never part-time	
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>
Child care in hours per weekday	1.88	2.01	3.57	3.47	2.19	2.81	1.49	1.71
Share of child care	0.25	0.19	0.40	0.23	0.27	0.21	0.23	0.19
Housework in hours per weekday	0.68	0.77	1.38	1.09	0.81	0.82	0.55	0.69
Share of housework	0.19	0.21	0.37	0.26	0.24	0.23	0.15	0.18
Relative income	0.82	0.22	0.57	0.34	0.74	0.23	0.85	0.17
Own income ^a	29.36	17.89	12.07	10.40	31.07	23.56	36.14	24.66
Partner's income ^a	8.50	14.03	16.77	19.74	14.92	17.94	7.77	11.62
Weekly work hours	43.88	9.87	20.30	7.83	42.30	9.58	45.03	8.36
Person-years	917		875		1,258		36,767	
Persons			541				6,444	

^a Monthly gross labor income in 100 Euro.

Table OA7. *Descriptive Statistics on Fathers' Involvement in Child Care and Housework in Eastern Germany: Estimated Means and Standard Deviations for Part-Time (N = 217) and Full-Time (N = 1,713) Employment Samples*

Variable	Part-time employment sample						Full-time employment sample	
	Before part-time		During part-time		After part-time		Never part-time	
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>
Child care in hours per weekday	1.84	1.49	3.10	3.14	1.87	1.86	1.47	1.85
Share of child care	0.30	0.18	0.40	0.22	0.31	0.23	0.28	0.22
Housework in hours per weekday	0.77	0.79	1.26	0.94	0.86	0.81	0.67	0.71
Share of housework	0.23	0.22	0.37	0.22	0.29	0.24	0.21	0.22
Relative income	0.71	0.26	0.58	0.33	0.64	0.25	0.72	0.21
Own income ^a	17.18	10.49	10.29	8.99	21.63	12.69	24.37	17.60
Partner's income ^a	10.25	11.86	12.74	13.10	15.58	13.98	11.11	10.52
Weekly work hours	43.13	8.48	21.38	8.37	44.55	10.20	46.63	8.81
Person-years	363		276		607		10,167	
Persons			217				1,713	

^a Monthly gross labor income in 100 Euro.

Table OA8. *B-Values and Hazard Ratios of Experiencing a Transition to Part-Time Employment among Fathers Who Have Not Worked Part-Time Yet (Discrete Time Event History Models, N = 8,915)*

Variable	B	SE	HR
Partner's employment status (ref: not employed)			
Part-time employed (p-t)	-0.01	0.10	0.99
Full-time employed (f-t)	0.67***	0.11	1.96***
After parental leave	0.53***	0.15	1.70***
Months unemployed	0.05***	0.01	1.05***
No. of children (ref: 1)			
2 children	-0.06	0.10	0.95
3 or more children	0.17	0.11	1.18
Age of the youngest child	-0.09***	0.01	0.92***
Education (ref: low) ^a			
Medium	0.13	0.11	1.14
High	0.32*	0.13	1.38*
Partner's education (ref: low) ^a			
Medium	-0.32**	0.12	0.73**
High	0.05	0.15	1.06
Married	-0.57***	0.11	0.57***
Eastern Germany	0.08	0.11	1.08
Number of person-years			48,972
Number of persons			8,915
Pseudo-R ²			.10

^a Casmin Classification: low = Hauptschule, medium = Realschule or Abitur, high = tertiary education.

Note: Controlled for year of observation (dummy variables), cluster-robust standard errors.

p-t = part-time employed, f-t = full-time employed, ref = reference category.

HZ = Hazard Ratio: Ratio that an event (transition to part-time employment) happens at time point t under the condition that it has not happened prior to t.

*** $p < .001$, ** $p < .01$, * $p < .05$, + $p < .1$

Interpretation: I estimated discrete time event history models on the likelihood of fathers who have not yet worked part time experiencing a transition to part-time employment (Box-Steffensmeier & Jones, 2004). The results show that fathers were more likely to transition to part-time employment if they were highly educated, unmarried, had taken parental leave, had a full-time employed partner, younger children and longer unemployment durations. The differences between fathers in eastern and western Germany, however, were not statistically significant in the multivariate analysis, and fathers with medium-educated partners were less likely to switch to part-time work than both fathers with higher and lower-educated partners.

Box-Steffensmeier, J. M., & Jones, B. S. (2004). *Event history modeling: A guide for social scientists*. Cambridge, New York: Cambridge University Press.

Table OA9. *Fixed-Effects Estimates on Employed Fathers' Child Care Hours: Fathers' Employment Status Interacted with Region of Residence (Eastern/Western Germany)*

(N = 8,915)

Variable	Model 1		Model 2		Model 3	
	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>
Father's employment status (ref: never worked part-time)						
During part-time employment	1.29***	0.14	1.43***	0.17	1.39***	0.17
After part-time employment	0.17	0.11	0.20	0.15	0.20	0.15
Eastern Germany	-0.16	0.13	-0.15	0.13	-0.16	0.13
Father's empl. Status x Eastern Germany						
Current p-t x Eastern Germany			-0.61*	0.28	-0.59*	0.28
Previous p-t x Eastern Germany			-0.12	0.19	-0.12	0.19
Relative income					-0.31*	0.12
Partner's employment status (ref: not employed)						
Part-time employed (p-t)	0.13***	0.02	0.13***	0.02	0.06 ⁺	0.03
Full-time employed (f-t)	0.09**	0.03	0.09**	0.03	-0.01	0.05
After parental leave	0.83***	0.13	0.83***	0.13	0.82***	0.13
Months unemployed	-0.00	0.00	-0.00	0.00	-0.00	0.00
No. of children (ref: 1)						
2 children	0.29***	0.05	0.29***	0.05	0.30***	0.05
3 or more children	0.31***	0.09	0.30***	0.09	0.31***	0.09
Age of the youngest child	-0.05***	0.01	-0.05***	0.01	-0.05***	0.01
Education (ref: low) ^a						
Medium	0.06	0.07	0.06	0.07	0.06	0.07
High	0.00	0.14	-0.00	0.14	-0.00	0.14
Partner's education (ref: low) ^a						
Medium	0.06	0.07	0.06	0.07	0.06	0.07
High	0.13	0.19	0.11	0.19	0.12	0.19
Married	0.28***	0.08	0.28***	0.08	0.28***	0.08
Number of person-years	51,230		51,230		51,230	
Number of persons	8,915		8,915		8,915	
R ² -within	.03		.03		.03	

^a Casmin Classification: low = Hauptschule, medium = Realschule or Abitur, high = tertiary education.

Note: Controlled for year of observation (dummy variables), panel-robust standard errors.

p-t = part-time employed, f-t = full-time employed, ref = reference category.

R²-within: Proportion of intra-individual variance explained by the model.

****p* < .001, ***p* < .01, **p* < .05, ⁺*p* < .1

Table OA10. *Fixed-Effects Estimates on Employed Fathers' Share of Child Care: Fathers' Employment Status Interacted with Region of Residence (Eastern/Western Germany)*

($N = 8,915$)

Variable	Model 1		Model 2		Model 3	
	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>
Father's employment status (ref: never worked part-time)						
During part-time employment	0.09***	0.01	0.10***	0.01	0.07***	0.01
After part-time employment	-0.00	0.01	-0.00	0.01	-0.01	0.01
Eastern Germany	-0.03	0.02	-0.03	0.02	-0.03	0.02
Father's empl. Status x Eastern Germany						
Current p-t x Eastern Germany			-0.04	0.03	-0.03	0.03
Previous p-t x Eastern Germany			0.01	0.02	0.00	0.02
Relative income					-0.19***	0.01
Partner's employment status (ref: not employed)						
Part-time employed (p-t)	0.05***	0.00	0.05***	0.00	0.01**	0.00
Full-time employed (f-t)	0.14***	0.00	0.14***	0.00	0.08***	0.01
After parental leave	-0.02 ⁺	0.01	-0.02 ⁺	0.01	-0.02*	0.01
Months unemployed	-0.00	0.00	-0.00	0.00	-0.00 ⁺	0.00
No. of children (ref: 1)						
2 children	-0.03***	0.01	-0.03***	0.01	-0.03***	0.01
3 or more children	-0.04***	0.01	-0.04***	0.01	-0.04***	0.01
Age of the youngest child	0.01***	0.00	0.01***	0.00	0.01***	0.00
Education (ref: low) ^a						
Medium	-0.02	0.01	-0.02	0.01	-0.02 ⁺	0.01
High	-0.03	0.02	-0.03	0.02	-0.03	0.02
Partner's education (ref: low) ^a						
Medium	-0.01	0.01	-0.01	0.01	-0.01	0.01
High	-0.03 ⁺	0.02	-0.03 ⁺	0.02	-0.04 ⁺	0.02
Married	-0.03***	0.01	-0.03***	0.01	-0.02***	0.01
Number of person-years	51,230		51,230		51,230	
Number of persons	8,915		8,915		8,915	
R ² -within	.08		.08		.08	

^a Casmin Classification: low = Hauptschule, medium = Realschule or Abitur, high = tertiary education.

Note: Controlled for year of observation (dummy variables), panel-robust standard errors.

p-t = part-time employed, f-t = full-time employed, ref = reference category.

R²-within: Proportion of intra-individual variance explained by the model.

*** $p < .001$, ** $p < .01$, * $p < .05$, ⁺ $p < .1$

Table OA11. *Fixed-Effects Estimates on Employed Fathers' Housework Hours: Fathers' Employment Status Interacted with Region of Residence (Eastern/Western Germany)*

(*N* = 8,915)

Variable	Model 1		Model 2		Model 3	
	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>
Father's employment status (ref: never worked part-time)						
During part-time employment	0.47***	0.06	0.52***	0.07	0.46***	0.07
After part-time employment	0.04	0.03	0.04	0.04	0.03	0.04
Eastern Germany	0.01	0.05	0.01	0.05	0.01	0.05
Father's empl. Status x Eastern Germany						
Current p-t x Eastern Germany			-0.19 ⁺	0.11	-0.17	0.11
Previous p-t x Eastern Germany			0.01	0.07	-0.01	0.07
Relative income					-0.40***	0.04
Partner's employment status (ref: not employed)						
Part-time employed (p-t)	0.07***	0.01	0.07***	0.01	-0.02	0.01
Full-time employed (f-t)	0.15***	0.01	0.15***	0.01	0.01	0.02
After parental leave	0.09*	0.04	0.09*	0.04	0.07 ⁺	0.04
Months unemployed	0.00	0.00	0.00	0.00	0.00	0.00
No. of children (ref: 1)						
2 children	-0.04 ⁺	0.02	-0.04 ⁺	0.02	-0.03	0.02
3 or more children	-0.03	0.03	-0.03	0.03	-0.02	0.04
Age of the youngest child	-0.01**	0.00	-0.01**	0.00	-0.01**	0.00
Education (ref: low) ^a						
Medium	-0.04	0.03	-0.04	0.03	-0.04	0.03
High	-0.03	0.05	-0.03	0.05	-0.03	0.05
Partner's education (ref: low) ^a						
Medium	0.04	0.04	0.04	0.04	0.04	0.04
High	-0.04	0.06	-0.04	0.06	-0.04	0.06
Married	-0.07**	0.02	-0.07**	0.02	-0.06**	0.02
Number of person-years	51,230		51,230		51,230	
Number of persons	8,915		8,915		8,915	
R ² -within	.02		.02		.02	

^a Casmin Classification: low = Hauptschule, medium = Realschule or Abitur, high = tertiary education.

Note: Controlled for year of observation (dummy variables), panel-robust standard errors.

p-t = part-time employed, f-t = full-time employed, ref = reference category.

R²-within: Proportion of intra-individual variance explained by the model.

****p* < .001, ***p* < .01, **p* < .05, ⁺*p* < .1

Table OA12. *Fixed-Effects Estimates on Employed Fathers' Share of Housework: Fathers' Employment Status Interacted with Region of Residence (Eastern/Western Germany)*

(N = 8,915)

Variable	Model 1		Model 2		Model 3	
	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>
Father's employment status (ref: never worked part-time)						
During part-time employment	0.10***	0.01	0.11***	0.02	0.09***	0.01
After part-time employment	0.01	0.01	0.01	0.01	0.01	0.01
Eastern Germany	0.03 ⁺	0.02	0.03 ⁺	0.02	0.03 ⁺	0.02
Father's empl. Status x Eastern Germany						
Current p-t x Eastern Germany			-0.04 ⁺	0.02	-0.03	0.02
Previous p-t x Eastern Germany			0.01	0.02	0.01	0.02
Relative income					-0.18***	0.01
Partner's employment status (ref: not employed)						
Part-time employed (p-t)	0.04***	0.00	0.04***	0.00	0.00	0.00
Full-time employed (f-t)	0.10***	0.00	0.10***	0.00	0.04***	0.01
After parental leave	0.01	0.01	0.01	0.01	0.00	0.01
Months unemployed	0.00	0.00	0.00	0.00	0.00	0.00
No. of children (ref: 1)						
2 children	-0.02***	0.00	-0.02***	0.00	-0.02***	0.00
3 or more children	-0.04***	0.01	-0.04***	0.01	-0.03***	0.01
Age of the youngest child	-0.00 ⁺	0.00	-0.00 ⁺	0.00	-0.00*	0.00
Education (ref: low) ^a						
Medium	-0.02*	0.01	-0.02*	0.01	-0.02*	0.01
High	-0.02	0.01	-0.02	0.01	-0.02	0.01
Partner's education (ref: low) ^a						
Medium	0.01	0.01	0.01	0.01	0.01	0.01
High	-0.01	0.02	-0.01	0.02	-0.01	0.02
Married	-0.02***	0.01	-0.02***	0.01	-0.02***	0.01
Number of person-years	51,230		51,230		51,230	
Number of persons	8,915		8,915		8,915	
R ² -within	.04		.04		.05	

^a Casmin Classification: low = Hauptschule, medium = Realschule or Abitur, high = tertiary education.

Note: Controlled for year of observation (dummy variables), panel-robust standard errors.

p-t = part-time employed, f-t = full-time employed, ref = reference category.

R²-within: Proportion of intra-individual variance explained by the model.

****p* < .001, ***p* < .01, **p* < .05, ⁺*p* < .1

Table OA13. *Involvement in Child Care and Housework by Duration of Part-Time**Employment* (N = 8,915)

Variable	Child Care		Share of Child Care		Housework		Share of Housework	
	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>	<i>B</i>	<i>SE</i>
Part-time (ref: never part-time)								
Currently part-time ≤ 1 year	1.39***	0.15	0.10***	0.01	0.53***	0.06	0.11***	0.01
Currently part-time > 1 year	1.19***	0.21	0.08***	0.02	0.39***	0.07	0.10***	0.02
Previously part-time ≤ 1 year	0.06	0.10	-0.01	0.01	0.01	0.04	0.01	0.01
Previously part-time > 1 year	0.41*	0.20	0.01	0.01	0.11*	0.05	0.03*	0.01
Number of person-years	51,230		51,230		51,230		51,230	
Number of persons	8,915		8,915		8,915		8,915	
R ² -within	.03		.08		.02		.04	

Note: Controlled for partner's employment status, use of parental leave, unemployment experience, number of children, age of the youngest child, both partners' education, marital status, region of residence, and year of observation (dummy variables), panel-robust standard errors.

R²-within: Proportion of intra-individual variance explained by the model.

*** $p < .001$, ** $p < .01$, * $p < .05$, + $p < .1$