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# **Occupational Characteristics and Parents' Time with Children**

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# Motivation & Question

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- ▶ Importance of employment for family outcomes
  - ▶ But what about work?
    - ▶ Hours, occupational group, schedule, flexibility...
    - ▶ Comparison of two occupations
      - ▶ e.g., EMTs vs. doctors (Shows & Gerstel 2009)
    - ▶ Interventions in a single worksite (WFHN)
  - ▶ How are occupational conditions associated with parental time use?
    - ▶ Utility of merging occupation-level data to time use
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# Why occupations?

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- ▶ **Micro-class (e.g., Weeden & Grusky 2005)**
    - ▶ Occupational self-selection
    - ▶ Social conditioning
    - ▶ Institutionalization of conditions
  
  - ▶ **Time use structured by occupations**
    - ▶ Specific occupational conditions
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# Which occupational conditions?

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- ▶ Job demands –control/resources perspective (Karasek 1979)
    - ▶ Crouter & colleagues (2006)
      - ▶ Resources
        - Self-direction
      - ▶ Demands
        - Physical hazards
        - Care Work
        - Physicality
        - Automation
    - ▶ Competition
      - ▶ Precarity of work (Kalleberg 2011)
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# Data & Sample

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- ▶ **American Time Use Survey, 2012-2107**
    - ▶ Parents of children under age 13
    - ▶ Employed parents on a workday
  
  - ▶ **Occupational Information Network (O\*NET)**
    - ▶ 277 variables on work activities, context, abilities...
    - ▶ Crosswalk
      - ▶ O\*NET SOC 2010 codes (947)
      - ▶ SOC 2010 codes (749)
      - ▶ Census 2010 codes (535)
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# Measures - ATUS

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- ▶ Time with children
    - ▶ With Child, Alone with Child
  - ▶ "In Your Care"
  - ▶ Child Care
    - ▶ Interactive Care, Physical Care
  - ▶ Controls: hours of work per week; occupational category; number of children; age of youngest child; partner present; college degree; family income; race-ethnicity; weekend day; year
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# Measures O\*NET

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- ▶ Replicate Crouter & colleagues' (2006) five factors derived from 35 variables
    - ▶ Self-direction
    - ▶ Hazards
    - ▶ Care Work
    - ▶ Physicality
    - ▶ Automation
  - ▶ Level of competition
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	Low	High
Self-direction	Postal Service Mail Carriers	Emergency Management Directors
	Textile Machine Setters, Operators	Management Analysts
	Proofreaders and Copy Markers	Chief Executives
Hazards	Tax Preparers	Railroad Brake Operators
	Actuaries	Ship Engineers
	Personal Financial Advisors	Derrick Operators, Oil and Gas
Care Work	Mathematical Technicians	Licensed Practical & Vocational Nurses
	Actuaries	Police and Sheriff's Patrol Officers
	Statisticians	First-Line Sups of Correctional Officers
Physical	Financial Specialists	Tire Builders
	Operations Research Analysts	Manufactured Home Installers
	Actuaries	Dancers
Automation	Directors, Religious Activities	Postal Service Mail Sorters, Processors
	Anthropologists and Archeologists	Telephone Operators
	Speech-Language Pathologists	Tire Builders
Competition	Crossing Guards	Financial Specialists
	Food preparation workers	Advertising Sales Agents
	Railroad brake operators	Real Estate Brokers and Agents



# Occupational Conditions by Category

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	Self-Direct	Hazards	Care Work	Physical	Automation	Competition
Management, Business, & Financial (0010-0950)	<b>4.35</b>	1.62	2.10	1.83	2.46	<b>3.37</b>
Professional & Related (1000-3540)	3.86	1.75	2.75	2.32	2.32	3.08
Service (3600-4650)	3.11	2.12	<b>2.96</b>	3.53	2.59	2.81
Sales & Office (4700-5940)	3.25	1.62	2.26	2.20	2.66	2.97
Construction & Maintenance (6005-7630 )	3.13	<b>3.52</b>	2.02	<b>3.88</b>	2.75	3.02
Production & Transportation (7700-9750)	2.97	2.88	2.08	3.53	<b>3.00</b>	2.94

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# Descriptives

## Occupational Conditions

	Men	Women	
Self-Direction	<b>3.66</b>	3.53	***
Hazards	<b>2.25</b>	1.75	***
Care Work	2.25	<b>2.62</b>	***
Physicality	<b>2.66</b>	2.56	***
Automation	<b>2.57</b>	2.52	***
Competition	<b>3.16</b>	2.92	***
Hours	<b>45.94</b>	37.89	***
Management, Business, & Financial (0010-0950)	<b>22.0%</b>	16.7%	***
Professional & Related (1000-3540)	21.0%	<b>31.0%</b>	***
Service (3600-4650)	11.1%	<b>20.5%</b>	***
Sales & Office (4700-5940)	13.1%	<b>25.4%</b>	***
Construction & Maintenance (6005-7630 )	<b>17.4%</b>	1.1%	***
Production & Transportation (7700-9750)	<b>15.4%</b>	5.3%	***

# Descriptives

## Time with Children on a Workday

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	<b>Men</b>	<b>Women</b>	
With Child	192	257***	
Alone with Child	72	163***	
"In Your Care"	168	225***	
Child Care	51	83***	
Interactive Care	22	24	
Physical Care	29	59***	
N - individuals	4,027	3,646	
N - occupations	360	292	

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# ML linear regression: Men, Workdays

	Time with Children						Child Care					
	With Children		Alone		"In Your Care"		All		Interactive		Physical	
	B/SE		B/SE		B/SE		B/SE		B/SE		B/SE	
Self-Direction	10.78		1.78		4.93		-0.28		-2.37		1.82	
	7.41		4.24		6.86		2.54		1.66		1.72	
Hazards	-2.28		8.83		4.01		-1.57		-0.18		-1.26	
	8.25		4.78		7.63		2.85		1.88		1.93	
Care Work	<b>-21.54**</b>		-6.34		<b>-18.31**</b>		0.83		1.85		-0.79	
	6.73		3.92		6.22		2.33		1.55		1.58	
Physicality	0.07		-0.11		2.12		1.45		-1.13		2.6	
	6.95		4.03		6.43		2.4		1.59		1.63	
Automation	<b>-32.43**</b>		-7.84		-17.76		-5.18		-2.55		-2.56	
	10.31		6.14		9.53		3.63		2.44		2.45	
Competition	<b>-21.8**</b>		-2.2		<b>-15.31*</b>		4.23		2.67		1.59	
	7.66		4.4		7.08		2.63		1.72		1.78	
Constant	308.08***		165.26***		324.95***		113.42***		54.63***		59.2***	
	51.59		30.93		47.63		18.25		12.29		12.33	

Models include: hours of work per week; occupational category; number of children; age of youngest child; partner present; college degree; family income; race-ethnicity; weekend day; year

# ML linear regression: Women, Workdays

	Time with Children						Child Care					
	With Children		Alone		"In Your Care"		All	Interactive		Physical		
	B/SE		B/SE		B/SE		B/SE		B/SE			
Self-Direction	-9.8		-0.8		-3.2		1.5		3.2		-1.7	
	(8.9)		(6.5)		(7.8)		(2.9)		(1.8)		(2.2)	
Hazards	16.6		4.8		2.1		3.6		2.7		1.1	
	(11.8)		(8.9)		(10.4)		(4.1)		(2.6)		(3.0)	
Care Work	<b>-26.6***</b>		<b>-13.0*</b>		<b>-20.2**</b>		<b>-9.1***</b>		<b>-4.8**</b>		<b>-4.4*</b>	
	(7.4)		(5.4)		(6.4)		(2.4)		(1.5)		(1.8)	
Physicality	-3.4		-7.3		-9.5		<b>-7.2**</b>		-1.3		<b>-6.0**</b>	
	(7.9)		(5.8)		(6.9)		(2.6)		(1.6)		(1.9)	
Automation	<b>-37.4***</b>		<b>-23.7**</b>		<b>-29.5**</b>		<b>-8.9*</b>		<b>-4.8*</b>		-4.2	
	(10.9)		(8.1)		(9.5)		(3.6)		(2.3)		(2.7)	
Competition	-5.0		<b>-14.5*</b>		<b>-16.8*</b>		<b>-6.0*</b>		-2.5		-3.6	
	(8.4)		(6.1)		(7.3)		(2.7)		(1.7)		(2.0)	
Constant	373.6***		426.7***		538.1***		228.8***		71.2***		158.0***	
	(58.4)		(43.7)		(51.5)		(19.8)		(12.6)		(14.8)	

Models include: hours of work per week; occupational category; number of children; age of youngest child; partner present; college degree; family income; race-ethnicity; weekend day; year

# Summary & Discussion

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- ▶ Indicators derived from O\*NET are associated with parents' time with children on **WORKDAYS**
    - ▶ Results null for non-workdays suggesting not selection
    - ▶ Controlling for occupational category, hours, education, & income, occ characteristics matter
  - ▶ Higher ratings on care work, physicality (for mothers), automation, and competition are negatively associated with time with children
    - ▶ And childcare time for mothers
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# Next Steps

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- ▶ **More work on occupational characteristics**
    - ▶ e.g., everwork (Wynn 2018)
      - ▶ Overwork
      - ▶ Face time
      - ▶ Constant availability
      - ▶ Unpredictability
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