

Online Appendix for Financial Vulnerability and Worker Wellbeing: A Comparison of Long-Term Services and Supports Workers with Other Health Workers

Additional information on compositional analysis:

We used a compositional regression to examine the time diary data in the American Time Use Survey (ATUS). As mentioned in the main text, a compositional regression is an analysis technique that can address correlations between outcomes when data are constrained between 0 and 1 (Chastin et al., 2015; Hron et al., 2009; Mert et al., 2018; Muller et al., 2016). In time diary data, activities are constrained between 0 and 1440 minutes (24hrs) and time spent on one activity is correlated with time spent on other activities. This makes a compositional regression well-suited for the ATUS data.

For example, when estimating the effect of being an LTSS worker on time spent exercising, a compositional analysis estimates the effect of LTSS status, taking into account time spent on all other activities. Therefore, individual activities represent the relative contributions in the overall 24-hour time period. In this model, the outcome is expressed as a function of all activities and relevant information is conveyed by ratios between activities (Muller et al., 2018). In other words, the outcome of a specific activity is expressed as a fraction of all other activities.

The approach uses a log-ratio transformation (log base 2) of the compositional outcome to move data from the compositional space to unrestricted real space, which then allows one to proceed with conventional statistical methods, including OLS. Estimated coefficients can be re-transformed to the original unit (i.e., proportion/percent) by taking the base of 2 to the power of the coefficient (2^{β_k}). For example, an estimate of 1.26 indicates that a specific activity dominates over other activities by 26% compared to the reference group. See online appendix for additional information on compositional analysis.

Table 1: Unadjusted and adjusted regression analyses of working in long terms services and supports (LTSS) on wages (ordinary least squares regression) and poverty (logistic regressions) by skill status, American Time Use Survey 2003-2018

Variable	Wage				Poverty			
	Low-skill (N=2,215)		High-skill (N=5,590)		Low-skill (N=820)		High-skill (N=1,983)	
	Coefficient (95%CI)	p-value	Coefficient (95%CI)	p-value	OR (95%CI)	p-value	OR (95%CI)	p-value
Unadjusted								
LTSS	-2.87 (-3.79; -1.95)	< 0.001	-4.42 (-5.87; -2.96)	< 0.001	2.11 (1.41; 3.16)	< 0.001	1.01 (0.67; 1.52)	0.965
Intercept	15.3 (14.52; 16.08)	< 0.001	26.7 (26.09; 27.3)	< 0.001	0.6 (0.44; 0.82)	0.002	0.19 (0.16; 0.22)	< 0.001
Adjusted								
LTSS	-2.54 (-3.4; -1.68)	< 0.001	-4.75 (-6.16; -3.34)	< 0.001	1.63 (1.05; 2.53)	0.03	0.83 (0.54; 1.28)	0.399
Black (Ref. White)	0.17 (-0.86; 1.2)	0.75	-1.43 (-3; 0.14)	0.074	3.31 (1.93; 5.66)	< 0.001	2.7 (1.76; 4.16)	< 0.001
Hispanic	0.07 (-1.34; 1.47)	0.928	-3.4 (-5.19; -1.6)	< 0.001	2.64 (1.28; 5.45)	0.009	2.55 (1.53; 4.25)	< 0.001
Other race	1.25 (-0.89; 3.38)	0.252	1.73 (-1.08; 4.54)	0.229	1.19 (0.4; 3.57)	0.756	0.75 (0.35; 1.6)	0.457
Age (in years)	0.05 (0.01; 0.09)	0.015	0.2 (0.15; 0.25)	< 0.001	1 (0.98; 1.02)	0.934	0.99 (0.97; 1.01)	0.205
Female	-1.04 (-2.35; 0.27)	0.118	2.15 (0.92; 3.38)	< 0.001	0.36 (0.17; 0.75)	0.007	1.67 (1.05; 2.66)	0.031
Divorced/Widowed/Separated (Ref. Married)	-1 (-1.99; -0.01)	0.048	-1.63 (-3.05; -0.2)	0.025	1.66 (0.96; 2.87)	0.071	2.29 (1.48; 3.55)	< 0.001
Single	-1.8 (-2.98; -0.63)	0.003	-2.43 (-4; -0.85)	0.003	1.22 (0.69; 2.15)	0.503	2.37 (1.45; 3.87)	< 0.001
Some College	1.9 (1.07; 2.72)	< 0.001	9.26 (8.14; 10.39)	< 0.001	0.49 (0.32; 0.75)	0.001	0.42 (0.26; 0.65)	< 0.001
Rural	-1.41 (-2.31; -0.51)	0.002	-2.57 (-4; -1.15)	< 0.001	1.15 (0.69; 1.91)	0.596	1.23 (0.78; 1.96)	0.371
Household 2-3 ppl (Ref. one person HH)	-2 (-3.51; -0.5)	0.009	-2.27 (-4.07; -0.46)	0.014	0.47 (0.26; 0.85)	0.013	1.07 (0.61; 1.9)	0.805
Household 4 plus	-2.71 (-4.42; -1)	0.002	-1.75 (-3.94; 0.43)	0.115	0.24 (0.11; 0.54)	< 0.001	1.51 (0.7; 3.23)	0.292
Child in HH	1.03 (0.12; 1.94)	0.027	1.51 (0.19; 2.83)	0.025	7.67 (4.36; 13.5)	< 0.001	3.03 (1.8; 5.07)	< 0.001
Foreign Born	-1.33 (-2.81; 0.15)	0.078	1.36 (-1.34; 4.05)	0.323	1.39 (0.78; 2.46)	0.261	2.2 (1.34; 3.61)	0.002
West (Ref. North-east)	-1.24 (-2.72; 0.25)	0.103	-0.81 (-2.56; 0.94)	0.365	1.69 (0.81; 3.49)	0.161	1.9 (1.08; 3.36)	0.027
Mid-West	-1.84 (-3.09; -0.6)	0.004	-3.26 (-4.9; -1.61)	< 0.001	1.26 (0.69; 2.3)	0.448	1.71 (1.01; 2.9)	0.048
South	-2.64 (-3.93; -1.35)	< 0.001	-3.14 (-4.72; -1.56)	< 0.001	1.43 (0.83; 2.49)	0.201	1.72 (1.04; 2.85)	0.035
Intercept	17 (14.04; 19.96)	< 0.001	14.3 (10.28; 18.31)	< 0.001	0.92 (0.22; 3.94)	0.915	0.05 (0.01; 0.16)	< 0.001

Note:

Wage data were available 2003-2018, poverty data were available 2006-2008 and 2014-2016

Table 2: Unadjusted and adjusted compositional regression analyses for long term services and support workers by skill status, American Time Use Survey 2003-2018

Low-skill (N=2,301)					High-skill (N=5,742)				
	Variable	Estimate	95% CI	99% CI	P-value	Estimate	95% CI	99% CI	P-value
	Work	Unadjusted							
	LTSS	1.28	1.02; 1.6	0.95; 1.72	0.032	1.34	1.08; 1.67	1; 1.79	0.009
	Work	Adjusted							
	LTSS	1.2	0.94; 1.52	0.88; 1.64	0.138	1.26	1.01; 1.57	0.94; 1.69	0.04
	Black (Ref. White)	1.3	0.96; 1.75	0.88; 1.93	0.086	1.01	0.79; 1.3	0.73; 1.4	0.936
	Hispanic	0.9	0.62; 1.31	0.55; 1.48	0.589	1.11	0.85; 1.46	0.78; 1.59	0.447
	Other race	1.21	0.71; 2.07	0.6; 2.44	0.473	1.01	0.7; 1.44	0.63; 1.61	0.969
	Age (in years)	1.01	1; 1.02	1; 1.02	0.054	1	1; 1.01	0.99; 1.01	0.308
	Female	0.55	0.4; 0.76	0.36; 0.84	<0.001	0.73	0.59; 0.89	0.55; 0.95	0.002
	Divorced/Widowed/Separated (Ref. Married)	1.53	1.1; 2.11	0.99; 2.34	0.011	1.18	0.94; 1.47	0.87; 1.58	0.162
	Single	1.12	0.82; 1.53	0.75; 1.68	0.464	1.14	0.91; 1.43	0.84; 1.54	0.26
	Some College	0.88	0.7; 1.11	0.65; 1.19	0.277	0.64	0.5; 0.81	0.46; 0.88	<0.001
	Rural	1.18	0.88; 1.58	0.8; 1.73	0.274	1.28	1.05; 1.57	0.98; 1.68	0.017
	Household 2-3 ppl (Ref. 1 person HH)	1.15	0.77; 1.71	0.68; 1.94	0.493	0.83	0.63; 1.08	0.58; 1.17	0.158
	Household 4 plus	1.77	1.08; 2.89	0.93; 3.36	0.023	0.65	0.47; 0.91	0.42; 1.01	0.012
	Child in HH	0.57	0.42; 0.78	0.39; 0.86	<0.001	0.82	0.67; 1.01	0.63; 1.08	0.061
	Foreign Born	1.3	0.93; 1.8	0.84; 1.99	0.122	1.43	1.08; 1.9	0.99; 2.07	0.012
	West (Ref. North-east)	0.73	0.51; 1.05	0.46; 1.18	0.093	0.82	0.64; 1.06	0.59; 1.15	0.129
	Mid-West	0.88	0.63; 1.23	0.57; 1.36	0.459	0.86	0.68; 1.08	0.64; 1.16	0.2
	South	0.95	0.69; 1.3	0.62; 1.43	0.734	0.89	0.72; 1.11	0.67; 1.19	0.314
	Work-related travel	Unadjusted							
	LTSS	1.2	1.04; 1.38	1; 1.45	0.011	1.28	1.12; 1.47	1.08; 1.53	<0.001
	Work-related travel	Adjusted							
	LTSS	1.08	0.93; 1.25	0.89; 1.3	0.333	1.24	1.09; 1.42	1.04; 1.48	0.002
	Black (Ref. White)	1.32	1.1; 1.59	1.03; 1.68	0.003	1.19	1.02; 1.38	0.97; 1.45	0.025
	Hispanic	1.16	0.92; 1.46	0.85; 1.57	0.223	1.21	1.02; 1.42	0.97; 1.5	0.025
	Other race	1.05	0.75; 1.46	0.68; 1.61	0.783	1.2	0.97; 1.49	0.9; 1.59	0.1
	Age (in years)	1	0.99; 1.01	0.99; 1.01	0.767	1	0.99; 1	0.99; 1	0.19
	Female	0.58	0.48; 0.71	0.45; 0.76	<0.001	0.78	0.69; 0.89	0.67; 0.92	<0.001
	Divorced/Widowed/Separated (Ref. Married)	1.29	1.05; 1.58	0.99; 1.68	0.013	1.08	0.94; 1.24	0.9; 1.29	0.288
	Single	1.09	0.9; 1.32	0.85; 1.4	0.378	1	0.87; 1.15	0.83; 1.2	0.995
	Some College	0.9	0.78; 1.04	0.74; 1.09	0.15	0.77	0.67; 0.9	0.64; 0.94	<0.001
	Rural	1.1	0.92; 1.32	0.87; 1.4	0.293	0.95	0.84; 1.07	0.81; 1.11	0.388
	Household 2-3 ppl (Ref. 1 person HH)	1.02	0.79; 1.3	0.73; 1.4	0.904	0.96	0.82; 1.13	0.78; 1.18	0.604
	Household 4 plus	1.09	0.81; 1.48	0.73; 1.63	0.564	1.02	0.84; 1.25	0.79; 1.33	0.814
	Child in HH	0.72	0.6; 0.87	0.57; 0.93	<0.001	0.65	0.58; 0.74	0.55; 0.77	<0.001
	Foreign Born	1.39	1.14; 1.7	1.07; 1.82	0.001	1.21	1.02; 1.44	0.97; 1.51	0.026
	West (Ref. North-east)	0.66	0.53; 0.82	0.49; 0.88	<0.001	0.82	0.7; 0.96	0.67; 1.01	0.013
	Mid-West	0.75	0.61; 0.93	0.58; 0.99	0.007	0.89	0.77; 1.02	0.74; 1.06	0.092

Low-skill (N=2,301)						High-skill (N=5,742)			
	Variable	Estimate	95% CI	99% CI	P-value	Estimate	95% CI	99% CI	P-value
	South	0.79	0.65; 0.96	0.61; 1.02	0.018	0.88	0.77; 1	0.74; 1.04	0.054
	Household activities	Unadjusted							
	LTSS	1.14	0.97; 1.34	0.92; 1.41	0.123	0.8	0.69; 0.93	0.66; 0.98	0.005
	Household activities	Adjusted							
	LTSS	1.13	0.95; 1.33	0.91; 1.4	0.16	0.81	0.7; 0.94	0.67; 0.99	0.007
	Black (Ref. White)	0.69	0.56; 0.85	0.52; 0.91	<0.001	0.67	0.57; 0.8	0.54; 0.84	<0.001
	Hispanic	1.42	1.09; 1.86	1.01; 2.02	0.009	0.85	0.71; 1.03	0.67; 1.09	0.091
	Other race	1.18	0.81; 1.72	0.73; 1.94	0.375	0.82	0.64; 1.05	0.6; 1.13	0.109
	Age (in years)	1.02	1.02; 1.03	1.01; 1.03	<0.001	1.02	1.02; 1.03	1.02; 1.03	<0.001
	Female	3.01	2.4; 3.78	2.23; 4.06	<0.001	2.05	1.78; 2.35	1.7; 2.46	<0.001
	Divorced/Widowed/Separated (Ref. Married)	0.67	0.54; 0.85	0.5; 0.91	<0.001	0.69	0.59; 0.81	0.56; 0.85	<0.001
	Single	0.79	0.64; 0.98	0.6; 1.05	0.034	0.71	0.61; 0.83	0.58; 0.87	<0.001
	Some College	1.1	0.94; 1.3	0.89; 1.37	0.24	1.1	0.93; 1.3	0.88; 1.37	0.268
	Rural	0.92	0.75; 1.13	0.7; 1.21	0.435	0.88	0.77; 1.02	0.74; 1.06	0.081
	Household 2-3 ppl (Ref. 1 person HH)	1.14	0.86; 1.51	0.79; 1.64	0.368	0.85	0.71; 1.02	0.67; 1.08	0.08
	Household 4 plus	0.83	0.58; 1.17	0.53; 1.3	0.279	0.93	0.74; 1.16	0.69; 1.25	0.518
	Child in HH	1.35	1.09; 1.68	1.02; 1.79	0.006	1.04	0.91; 1.2	0.87; 1.25	0.573
	Foreign Born	0.7	0.55; 0.88	0.52; 0.94	0.002	0.86	0.71; 1.04	0.67; 1.1	0.115
	West (Ref. North-east)	1	0.78; 1.29	0.72; 1.4	0.993	1.18	0.99; 1.4	0.94; 1.48	0.057
	Mid-West	1.13	0.89; 1.42	0.83; 1.53	0.319	1.37	1.17; 1.6	1.12; 1.68	<0.001
	South	1.17	0.94; 1.47	0.88; 1.57	0.159	1.17	1.01; 1.36	0.96; 1.42	0.042
	Caring for children	Unadjusted							
	LTSS	1.13	0.96; 1.33	0.91; 1.4	0.142	0.84	0.73; 0.98	0.69; 1.03	0.028
	Caring for children	Adjusted							
	LTSS	0.95	0.83; 1.08	0.8; 1.13	0.438	0.98	0.88; 1.09	0.85; 1.13	0.705
	Black (Ref. White)	0.97	0.83; 1.14	0.78; 1.2	0.726	0.99	0.87; 1.12	0.84; 1.16	0.842
	Hispanic	0.75	0.61; 0.92	0.57; 0.98	0.006	1.01	0.88; 1.15	0.85; 1.2	0.926
	Other race	0.78	0.59; 1.05	0.54; 1.14	0.097	0.83	0.69; 0.98	0.66; 1.04	0.032
	Age (in years)	0.98	0.97; 0.99	0.97; 0.99	<0.001	0.98	0.97; 0.98	0.97; 0.98	<0.001
	Female	1.32	1.11; 1.58	1.05; 1.67	0.002	1.2	1.09; 1.33	1.05; 1.37	<0.001
	Divorced/Widowed/Separated (Ref. Married)	0.92	0.77; 1.1	0.73; 1.16	0.345	0.74	0.66; 0.83	0.64; 0.86	<0.001
	Single	0.74	0.63; 0.87	0.59; 0.92	<0.001	0.55	0.49; 0.62	0.48; 0.64	<0.001
	Some College	1.01	0.89; 1.15	0.85; 1.19	0.892	1.31	1.16; 1.48	1.12; 1.53	<0.001
	Rural	1.16	0.99; 1.36	0.94; 1.43	0.068	0.91	0.82; 1	0.79; 1.03	0.053
	Household 2-3 ppl (Ref. 1 person HH)	0.89	0.71; 1.1	0.67; 1.18	0.286	0.73	0.64; 0.83	0.62; 0.87	<0.001
	Household 4 plus	0.75	0.58; 0.98	0.53; 1.07	0.036	0.68	0.58; 0.8	0.55; 0.84	<0.001
	Child in HH	12.92	10.95; 15.25	10.4; 16.05	<0.001	13.23	11.97; 14.63	11.6; 15.09	<0.001
	Foreign Born	0.98	0.82; 1.17	0.78; 1.24	0.839	1.01	0.88; 1.16	0.84; 1.21	0.903
	West (Ref. North-east)	1.34	1.1; 1.63	1.04; 1.73	0.003	0.87	0.77; 0.99	0.74; 1.02	0.029
	Mid-West	1.16	0.97; 1.39	0.91; 1.47	0.114	1	0.89; 1.12	0.86; 1.16	0.985
	South	1.28	1.08; 1.52	1.02; 1.61	0.005	0.87	0.78; 0.97	0.76; 1	0.012
Eating or drinking	Unadjusted								

Low-skill (N=2,301)						High-skill (N=5,742)			
	Variable	Estimate	95% CI	99% CI	P-value	Estimate	95% CI	99% CI	P-value
Eating or drinking	LTSS	0.77	0.7; 0.86	0.68; 0.88	<0.001	0.88	0.8; 0.96	0.78; 0.99	0.005
	Adjusted								
	LTSS	0.87	0.79; 0.97	0.76; 1	0.011	0.88	0.81; 0.97	0.79; 1	0.007
	Black (Ref. White)	0.64	0.56; 0.74	0.54; 0.77	<0.001	0.87	0.78; 0.96	0.76; 0.99	0.005
	Hispanic	0.94	0.8; 1.11	0.76; 1.17	0.491	1.14	1.03; 1.28	0.99; 1.32	0.016
	Other race	0.95	0.75; 1.2	0.7; 1.29	0.657	1.45	1.25; 1.67	1.2; 1.75	<0.001
	Age (in years)	1	1; 1.01	1; 1.01	0.16	1	1; 1.01	1; 1.01	0.008
	Female	0.98	0.85; 1.13	0.81; 1.18	0.773	0.96	0.88; 1.05	0.86; 1.07	0.363
	Divorced/Widowed/Separated (Ref. Married)	0.76	0.66; 0.88	0.63; 0.92	<0.001	0.91	0.83; 1	0.81; 1.03	0.053
	Single	0.89	0.78; 1.02	0.75; 1.07	0.103	1.05	0.96; 1.15	0.93; 1.19	0.283
	Some College	1.22	1.1; 1.35	1.06; 1.39	<0.001	1.07	0.97; 1.18	0.94; 1.22	0.173
	Rural	0.98	0.86; 1.11	0.83; 1.16	0.742	1.05	0.97; 1.14	0.94; 1.17	0.258
	Household 2-3 ppl (Ref. 1 person HH)	0.93	0.78; 1.11	0.74; 1.17	0.409	1.2	1.08; 1.34	1.04; 1.38	<0.001
	Household 4 plus	0.99	0.8; 1.23	0.74; 1.31	0.912	1.18	1.03; 1.35	0.99; 1.41	0.017
	Child in HH	0.67	0.58; 0.77	0.56; 0.8	<0.001	0.71	0.65; 0.77	0.64; 0.79	<0.001
	Foreign Born	1.25	1.08; 1.45	1.03; 1.51	0.002	1.02	0.91; 1.14	0.88; 1.18	0.727
	West (Ref. North-east)	1.13	0.96; 1.32	0.91; 1.39	0.146	1.06	0.96; 1.18	0.93; 1.22	0.234
	Mid-West	0.92	0.8; 1.07	0.76; 1.12	0.282	0.96	0.87; 1.05	0.85; 1.08	0.35
	South	0.97	0.84; 1.12	0.81; 1.17	0.676	0.96	0.87; 1.05	0.85; 1.08	0.328
	Sleep	Unadjusted							
LTSS		0.92	0.87; 0.98	0.85; 1	0.013	1	0.95; 1.05	0.93; 1.06	0.873
Adjusted									
LTSS		0.95	0.89; 1.02	0.87; 1.04	0.134	0.99	0.94; 1.04	0.92; 1.05	0.605
Black (Ref. White)		1.06	0.98; 1.15	0.96; 1.18	0.132	1.15	1.09; 1.22	1.07; 1.24	<0.001
Hispanic		1.07	0.97; 1.19	0.94; 1.23	0.18	1.04	0.98; 1.1	0.96; 1.12	0.247
Other race		1.08	0.94; 1.25	0.9; 1.31	0.282	1.08	0.99; 1.17	0.97; 1.2	0.079
Age (in years)		1	0.99; 1	0.99; 1	0.072	1	0.99; 1	0.99; 1	<0.001
Female		0.87	0.8; 0.95	0.78; 0.98	0.002	0.94	0.9; 0.99	0.88; 1	0.01
Divorced/Widowed/Separated (Ref. Married)		1.09	1; 1.19	0.97; 1.23	0.048	1.09	1.04; 1.15	1.02; 1.17	<0.001
Single		1.11	1.02; 1.21	0.99; 1.24	0.015	1.07	1.01; 1.12	1; 1.14	0.013
Some College		1.01	0.95; 1.08	0.93; 1.1	0.672	0.97	0.92; 1.03	0.9; 1.04	0.286
Rural		1.06	0.98; 1.14	0.95; 1.17	0.172	0.99	0.95; 1.04	0.94; 1.06	0.776
Household 2-3 ppl (Ref. 1 person HH)		1.12	1.01; 1.25	0.97; 1.29	0.035	1.02	0.96; 1.08	0.94; 1.1	0.51
Household 4 plus		1.22	1.06; 1.39	1.02; 1.45	0.004	1.03	0.96; 1.12	0.94; 1.14	0.373
Child in HH		0.75	0.69; 0.81	0.67; 0.83	<0.001	0.77	0.74; 0.81	0.73; 0.82	<0.001
Foreign Born		0.92	0.84; 1.01	0.82; 1.03	0.065	0.94	0.88; 1	0.87; 1.02	0.057
West (Ref. North-east)		1.09	0.99; 1.2	0.96; 1.24	0.079	1.08	1.02; 1.14	1; 1.16	0.012
Mid-West		0.98	0.9; 1.07	0.87; 1.11	0.701	1.04	0.98; 1.09	0.97; 1.11	0.175
South		0.96	0.88; 1.04	0.85; 1.07	0.305	1.03	0.98; 1.08	0.97; 1.1	0.229
Socializing	Unadjusted								
	LTSS	0.98	0.85; 1.13	0.81; 1.18	0.781	1	0.88; 1.14	0.84; 1.19	0.998
	Adjusted								
	LTSS	1.07	0.93; 1.24	0.89; 1.3	0.351	0.96	0.84; 1.09	0.81; 1.14	0.536

Low-skill (N=2,301)					High-skill (N=5,742)				
	Variable	Estimate	95% CI	99% CI	P-value	Estimate	95% CI	99% CI	P-value
Demographics	Black (Ref. White)	1.06	0.88; 1.27	0.83; 1.34	0.559	1.07	0.92; 1.24	0.88; 1.29	0.364
	Hispanic	0.92	0.73; 1.16	0.68; 1.25	0.495	0.95	0.81; 1.11	0.77; 1.16	0.492
	Other race	1.16	0.84; 1.6	0.75; 1.77	0.38	0.94	0.76; 1.16	0.72; 1.23	0.56
	Age (in years)	1	1; 1.01	1; 1.01	0.278	1.01	1.01; 1.02	1.01; 1.02	<0.001
	Female	0.83	0.68; 1.01	0.64; 1.08	0.069	0.83	0.73; 0.93	0.71; 0.97	0.002
	Divorced/Widowed/Separated (Ref. Married)	1.01	0.82; 1.23	0.77; 1.31	0.958	1.28	1.12; 1.46	1.07; 1.52	<0.001
	Single	1.36	1.12; 1.64	1.06; 1.73	0.002	1.5	1.31; 1.71	1.26; 1.78	<0.001
	Some College	0.79	0.68; 0.91	0.65; 0.95	0.001	0.94	0.82; 1.09	0.78; 1.14	0.411
	Rural	1.01	0.84; 1.21	0.79; 1.27	0.942	1.08	0.96; 1.21	0.92; 1.26	0.226
	Household 2-3 ppl (Ref. 1 person HH)	0.89	0.69; 1.13	0.64; 1.22	0.332	1.13	0.97; 1.32	0.93; 1.39	0.111
	Household 4 plus	1.12	0.83; 1.51	0.75; 1.65	0.477	1.15	0.94; 1.39	0.89; 1.48	0.166
	Child in HH	0.58	0.48; 0.7	0.46; 0.74	<0.001	0.64	0.57; 0.72	0.55; 0.75	<0.001
	Foreign Born	0.63	0.51; 0.77	0.48; 0.82	<0.001	0.76	0.65; 0.9	0.61; 0.94	0.001
	West (Ref. North-east)	0.8	0.64; 1	0.6; 1.07	0.052	1.17	1.01; 1.36	0.97; 1.42	0.035
	Mid-West	0.99	0.8; 1.21	0.76; 1.29	0.887	1.13	0.99; 1.29	0.95; 1.35	0.075
	South	0.84	0.69; 1.02	0.65; 1.09	0.083	1.14	1; 1.29	0.96; 1.34	0.051
Watching TV	Watching TV	Unadjusted							
	LTSS	1.06	0.88; 1.27	0.83; 1.35	0.559	1.02	0.86; 1.21	0.81; 1.28	0.825
	Watching TV	Adjusted							
	LTSS	1.08	0.89; 1.31	0.83; 1.39	0.459	0.98	0.82; 1.16	0.78; 1.22	0.783
	Black (Ref. White)	1.26	0.99; 1.62	0.91; 1.74	0.065	1.26	1.04; 1.53	0.98; 1.63	0.018
	Hispanic	1.32	0.97; 1.8	0.88; 1.98	0.083	0.95	0.77; 1.18	0.72; 1.26	0.656
	Other race	1.1	0.71; 1.71	0.62; 1.96	0.667	1.2	0.91; 1.58	0.83; 1.72	0.202
	Age (in years)	1	1; 1.01	0.99; 1.02	0.316	1.01	1.01; 1.02	1; 1.02	<0.001
	Female	0.93	0.71; 1.21	0.65; 1.32	0.578	0.83	0.71; 0.98	0.67; 1.02	0.023
	Divorced/Widowed/Separated (Ref. Married)	0.73	0.55; 0.95	0.51; 1.03	0.019	1.07	0.9; 1.28	0.85; 1.35	0.427
	Single	1.29	1; 1.66	0.92; 1.8	0.05	1.25	1.04; 1.49	0.99; 1.57	0.016
	Some College	0.78	0.64; 0.95	0.61; 1.01	0.012	0.83	0.69; 1	0.65; 1.07	0.055
	Rural	1.01	0.79; 1.28	0.73; 1.39	0.946	1.02	0.87; 1.19	0.83; 1.25	0.835
	Household 2-3 ppl (Ref. 1 person HH)	0.83	0.6; 1.16	0.54; 1.28	0.28	1.23	1; 1.51	0.94; 1.61	0.05
	Household 4 plus	0.84	0.56; 1.26	0.5; 1.43	0.406	1.16	0.89; 1.5	0.82; 1.62	0.271
	Child in HH	0.83	0.65; 1.07	0.6; 1.15	0.148	0.62	0.53; 0.73	0.5; 0.76	<0.001
	Foreign Born	0.51	0.39; 0.66	0.36; 0.72	<0.001	0.73	0.59; 0.91	0.55; 0.97	0.005
	West (Ref. North-east)	0.77	0.57; 1.04	0.52; 1.14	0.086	1.02	0.83; 1.24	0.78; 1.32	0.871
	Mid-West	0.9	0.69; 1.19	0.63; 1.29	0.471	1.09	0.91; 1.3	0.86; 1.38	0.349
	South	0.84	0.65; 1.09	0.6; 1.18	0.186	1	0.84; 1.19	0.8; 1.25	0.984
Sport	Sport	Unadjusted							
	LTSS	0.8	0.71; 0.9	0.68; 0.93	<0.001	0.86	0.76; 0.98	0.73; 1.01	0.019
	Sport	Adjusted							
	LTSS	0.9	0.79; 1.01	0.77; 1.05	0.085	0.9	0.8; 1.02	0.77; 1.06	0.095
	Black (Ref. White)	0.82	0.71; 0.96	0.67; 1.01	0.014	0.72	0.63; 0.83	0.6; 0.86	<0.001
	Hispanic	0.83	0.68; 1	0.64; 1.07	0.056	0.78	0.67; 0.91	0.64; 0.96	0.002

Low-skill (N=2,301)					High-skill (N=5,742)				
	Variable	Estimate	95% CI	99% CI	P-value	Estimate	95% CI	99% CI	P-value
	Other race	0.68	0.52; 0.9	0.48; 0.97	0.006	1	0.82; 1.21	0.77; 1.29	0.961
	Age (in years)	0.99	0.99; 1	0.99; 1	0.014	0.99	0.99; 1	0.99; 1	0.006
	Female	0.73	0.62; 0.86	0.59; 0.91	<0.001	0.7	0.62; 0.78	0.6; 0.81	<0.001
	Divorced/Widowed/Separated (Ref. Married)	1.05	0.89; 1.24	0.84; 1.31	0.573	0.93	0.82; 1.05	0.79; 1.09	0.238
	Single	1.1	0.94; 1.29	0.89; 1.35	0.242	1.04	0.92; 1.19	0.88; 1.23	0.507
	Some College	1.11	0.98; 1.25	0.95; 1.29	0.099	1.18	1.03; 1.35	0.99; 1.41	0.018
	Rural	0.97	0.84; 1.13	0.8; 1.19	0.735	0.92	0.82; 1.03	0.79; 1.07	0.14
	Household 2-3 ppl (Ref. 1 person HH)	0.94	0.77; 1.15	0.72; 1.23	0.555	1.06	0.92; 1.23	0.88; 1.29	0.407
	Household 4 plus	0.88	0.68; 1.13	0.63; 1.22	0.308	1.13	0.94; 1.36	0.89; 1.45	0.183
	Child in HH	0.68	0.58; 0.8	0.55; 0.84	<0.001	0.7	0.62; 0.78	0.6; 0.81	<0.001
	Foreign Born	1.2	1.01; 1.42	0.96; 1.49	0.038	0.96	0.82; 1.12	0.78; 1.18	0.608
	West (Ref. North-east)	1.42	1.18; 1.71	1.12; 1.81	<0.001	1.1	0.95; 1.27	0.91; 1.32	0.188
	Mid-West	0.99	0.83; 1.17	0.79; 1.23	0.883	0.82	0.72; 0.93	0.69; 0.97	0.002
	South	1.12	0.95; 1.31	0.9; 1.38	0.182	0.95	0.84; 1.07	0.81; 1.11	0.379
	Other Activities	Unadjusted							
	LTSS	0.85	0.69; 1.06	0.65; 1.13	0.147	1.12	0.92; 1.35	0.87; 1.43	0.262
	Other Activities	Adjusted							
	LTSS	0.84	0.67; 1.05	0.63; 1.13	0.132	1.09	0.9; 1.32	0.85; 1.4	0.383
	Black (Ref. White)	1.15	0.87; 1.53	0.8; 1.67	0.321	1.3	1.04; 1.61	0.98; 1.72	0.019
	Hispanic	0.89	0.62; 1.26	0.56; 1.41	0.503	1.03	0.82; 1.31	0.76; 1.41	0.777
	Other race	0.95	0.58; 1.57	0.49; 1.83	0.846	0.7	0.52; 0.96	0.47; 1.05	0.025
	Age (in years)	0.99	0.98; 1	0.97; 1	0.004	0.98	0.98; 0.99	0.98; 0.99	<0.001
	Female	1.64	1.21; 2.22	1.1; 2.44	0.002	1.64	1.37; 1.96	1.3; 2.07	<0.001
	Divorced/Widowed/Separated (Ref. Married)	1.28	0.94; 1.75	0.86; 1.92	0.11	1.21	1; 1.48	0.94; 1.57	0.052
	Single	0.74	0.55; 0.98	0.5; 1.08	0.038	1.02	0.84; 1.25	0.79; 1.33	0.818
	Some College	1.36	1.09; 1.69	1.02; 1.81	0.007	1.48	1.2; 1.83	1.12; 1.95	<0.001
	Rural	0.7	0.53; 0.93	0.49; 1.01	0.013	0.98	0.82; 1.17	0.78; 1.24	0.836
	Household 2-3 ppl (Ref. 1 person HH)	1.17	0.8; 1.7	0.71; 1.91	0.413	1.12	0.89; 1.41	0.83; 1.51	0.339
	Household 4 plus	0.84	0.53; 1.34	0.46; 1.54	0.469	1.29	0.97; 1.72	0.88; 1.88	0.083
	Child in HH	0.84	0.63; 1.12	0.58; 1.22	0.233	0.89	0.74; 1.06	0.7; 1.12	0.191
	Foreign Born	1.85	1.36; 2.52	1.24; 2.77	<0.001	1.3	1.02; 1.65	0.94; 1.78	0.036
	West (Ref. North-east)	1.43	1.02; 2	0.91; 2.22	0.04	0.96	0.77; 1.19	0.72; 1.28	0.702
	Mid-West	1.45	1.06; 1.97	0.96; 2.17	0.02	0.96	0.79; 1.17	0.74; 1.25	0.681
	South	1.21	0.9; 1.63	0.82; 1.79	0.205	1.18	0.98; 1.43	0.92; 1.52	0.084

Note:

- 1) Coefficients are re-transformed to percentages by taking the base of 2 to the power of the coefficient (2^{β_k}). For example, an estimate of 1.26 indicates that a specific activity dominates over other activities by 26% compared to the reference group.
- 2) To address potentially false inferences from multiple comparisons testing, we provide 99% confidence intervals. Note that a Bonferroni correction for nine activities indicates statistical significance at an alpha of 0.005.