

The MCMC Procedure

Number of Observations Read	1330
Number of Observations Used	1324

Missing Data Information Table

Variable	Number of Missing Obs	Observation Indices	Sampling Method	Threads
PA_m	594	5 7 8 14 15 18 19 20 21 22 25 27 28 29 30 31 32 34 37 40 ...	Direct	12

Parameters

Block	Parameter	Sampling Method	Threads	Initial Value	Prior Distribution
1	a0	N-Metropolis	12	0	normal(0,var=100)
	a1			0	normal(0,var=100)
	a2			0	normal(0,var=100)
	a3			0	normal(0,var=100)
	a6			0	normal(0,var=100)
	a7a			0	normal(0,var=100)
	a7b			0	normal(0,var=100)
	a7c			0	normal(0,var=100)
	a7d			0	normal(0,var=100)
	a7e			0	normal(0,var=100)
	a8A			0	normal(0,var=100)
	a8B			0	normal(0,var=100)
	a8C			0	normal(0,var=100)
	alp_a0			1.7000	normal(0,var=100)
2	b0	N-Metropolis	12	0.5000	normal(0,var=100)
	b1			0	normal(0,var=100)
	b2			0	normal(0,var=100)
	b3			0	normal(0,var=100)
	b6			0	normal(0,var=100)
	b7a			0	normal(0,var=100)
	b7b			0	normal(0,var=100)
	b7c			0	normal(0,var=100)
	b7d			0	normal(0,var=100)
	b7e			0	normal(0,var=100)
	b8a			0	normal(0,var=100)
	b8b			0	normal(0,var=100)
	b8c			0	normal(0,var=100)
	alp_b0			1.0000	normal(0,var=100)
3	tau0	N-Metropolis	12	0.4318	normal(0,var=100)
	tau1			0	normal(0,var=100)
	tau2			0	normal(0,var=100)
	tau3			0	normal(0,var=100)

Parameters					
Block	Parameter	Sampling Method	Threads	Initial Value	Prior Distribution
	tau6			0	normal(0,var=100)
	tau7a			0	normal(0,var=100)
	tau7b			0	normal(0,var=100)
	tau7c			0	normal(0,var=100)
	tau7d			0	normal(0,var=100)
	tau7e			0	normal(0,var=100)
	tau8a			0	normal(0,var=100)
	tau8b			0	normal(0,var=100)
	tau8c			0	normal(0,var=100)
4	rhoba	Slice	12	0	uniform(-1,1)

Random Effect Parameters							
Parameter	Sampling Method	Threads	Subject	Number of Subjects	Subject Values		Prior Distribution
b	N-Metropolis	12	M2ID	179	10117 10189 10469 10482 10532 10563 10604 10682 10690 10721 10732 10748 10871 10889 10905 10985 11034 11042 11050 11122 ...		MVNormal(mu,cov)

The MCMC Procedure

Posterior Summaries and Intervals					
Parameter	N	Mean	Standard Deviation	95% HPD Interval	
a0	10000	0.6449	0.4693	-0.3422	1.4930
a1	10000	-0.2855	0.1764	-0.6370	0.0520
a2	10000	0.3026	0.4003	-0.5143	1.0615
a3	10000	0.2463	0.4269	-0.6161	1.0540
a6	10000	-0.8608	0.3235	-1.4985	-0.2368
a7a	10000	0.1446	0.4679	-0.7884	1.0638
a7b	10000	-0.6443	0.5224	-1.6359	0.4121
a7c	10000	0.7269	0.5416	-0.3647	1.7697
a7d	10000	-1.4343	0.5973	-2.6427	-0.2973
a7e	10000	-0.4876	0.3472	-1.1691	0.1897
a8A	10000	-0.2677	0.6236	-1.5242	0.9351
a8B	10000	-0.1778	0.5700	-1.2440	0.9876
a8C	10000	-0.1129	0.6431	-1.4331	1.1064
alp_a0	10000	1.7162	0.1928	1.3411	2.0928
b0	10000	1.8528	0.2404	1.3710	2.3068
b1	10000	-0.0127	0.0937	-0.1936	0.1694
b2	10000	0.0248	0.1946	-0.3672	0.3999
b3	10000	-0.4991	0.2045	-0.8948	-0.0981
b6	10000	0.0682	0.1619	-0.2567	0.3760
b7a	10000	-0.0456	0.2370	-0.5060	0.4328
b7b	10000	0.4908	0.2477	-0.0138	0.9590
b7c	10000	0.2066	0.2489	-0.2805	0.6862
b7d	10000	-0.1070	0.2700	-0.6160	0.4383
b7e	10000	0.1206	0.1759	-0.2224	0.4662
b8a	10000	-0.00741	0.2958	-0.5765	0.5812
b8b	10000	0.1832	0.2739	-0.3379	0.7327
b8c	10000	0.2366	0.3168	-0.3668	0.8765
alp_b0	10000	-0.0928	0.1824	-0.4628	0.2538
tau0	10000	0.7868	0.1356	0.5381	1.0650
tau1	10000	-0.3049	0.1561	-0.6102	-0.00025
tau2	10000	0.0393	0.1463	-0.2290	0.3366
tau3	10000	-0.2955	0.1374	-0.5679	-0.0338
tau6	10000	-0.2590	0.1245	-0.4927	-0.00556
tau7a	10000	-0.3306	0.1759	-0.6898	-0.00382
tau7b	10000	1.0196	0.1670	0.6909	1.3405
tau7c	10000	0.2544	0.1899	-0.1138	0.6233
tau7d	10000	0.5948	0.1762	0.2580	0.9511
tau7e	10000	0.2993	0.1246	0.0656	0.5547

a openness
 b conscientiousness
 c extroversion
 d agreeableness
 e neuroticism

higher agreeableness -> less likely to engage in PA

none are related to level of engagement

all 5 intervals include 0

higher openness = tend to have more consistency in their PA level (no matter the level)

higher conscientiousness, agreeableness and neuroticism = greater degree of day to day fluctuation in PA level

extraversion is not related to day to day variation in time spent

Posterior Summaries and Intervals					
Parameter	N	Mean	Standard Deviation	95% HPD Interval	
tau8a	10000	-0.5368	0.1987	-0.9101	-0.1394
tau8b	10000	-0.1130	0.1622	-0.4269	0.2094
tau8c	10000	0.1809	0.1880	-0.1811	0.5599
rhoba	10000	-0.0232	0.1503	-0.3259	0.2614

The MCMC Procedure

Effective Sample Sizes			
Parameter	ESS	Autocorrelation Time	Efficiency
a0	9131.4	1.0951	0.9131
a1	9354.4	1.0690	0.9354
a2	9259.5	1.0800	0.9260
a3	9032.5	1.1071	0.9033
a6	7888.2	1.2677	0.7888
a7a	8929.8	1.1198	0.8930
a7b	8054.0	1.2416	0.8054
a7c	9130.4	1.0952	0.9130
a7d	9521.0	1.0503	0.9521
a7e	8938.4	1.1188	0.8938
a8A	8745.2	1.1435	0.8745
a8B	8715.9	1.1473	0.8716
a8C	9090.1	1.1001	0.9090
alp_a0	10000.0	1.0000	1.0000
b0	4316.8	2.3165	0.4317
b1	9793.1	1.0211	0.9793
b2	9117.5	1.0968	0.9117
b3	6996.6	1.4293	0.6997
b6	7272.6	1.3750	0.7273
b7a	7681.8	1.3018	0.7682
b7b	6988.4	1.4309	0.6988
b7c	2946.1	3.3943	0.2946
b7d	3837.2	2.6061	0.3837
b7e	9101.9	1.0987	0.9102
b8a	5415.1	1.8467	0.5415
b8b	5131.2	1.9489	0.5131
b8c	3030.8	3.2995	0.3031
alp_b0	8720.0	1.1468	0.8720
tau0	10000.0	1.0000	1.0000
tau1	10000.0	1.0000	1.0000
tau2	9740.9	1.0266	0.9741
tau3	9486.1	1.0542	0.9486
tau6	10000.0	1.0000	1.0000
tau7a	10000.0	1.0000	1.0000
tau7b	10000.0	1.0000	1.0000
tau7c	10000.0	1.0000	1.0000
tau7d	10258.1	0.9748	1.0258
tau7e	10000.0	1.0000	1.0000

Effective Sample Sizes			
Parameter	ESS	Autocorrelation Time	Efficiency
tau8a	10000.0	1.0000	1.0000
tau8b	10591.7	0.9441	1.0592
tau8c	10000.0	1.0000	1.0000
rhoba	9066.6	1.1029	0.9067

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