

A Propensity Score Matched Study of Personality Change Following Life Events

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The Big 5

Extraversion

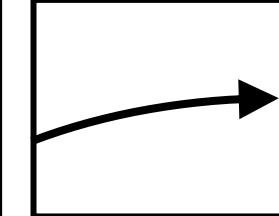
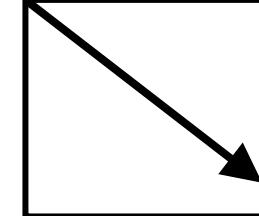
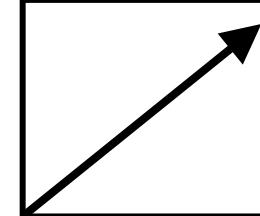
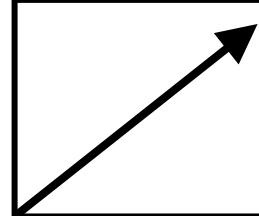
Agreeableness

Conscientiousness

Neuroticism

Openness

Direction



Magnitude

--

.6 SD

1 SD

-.8 SD

.4 SD

Timing

--

Lifespan

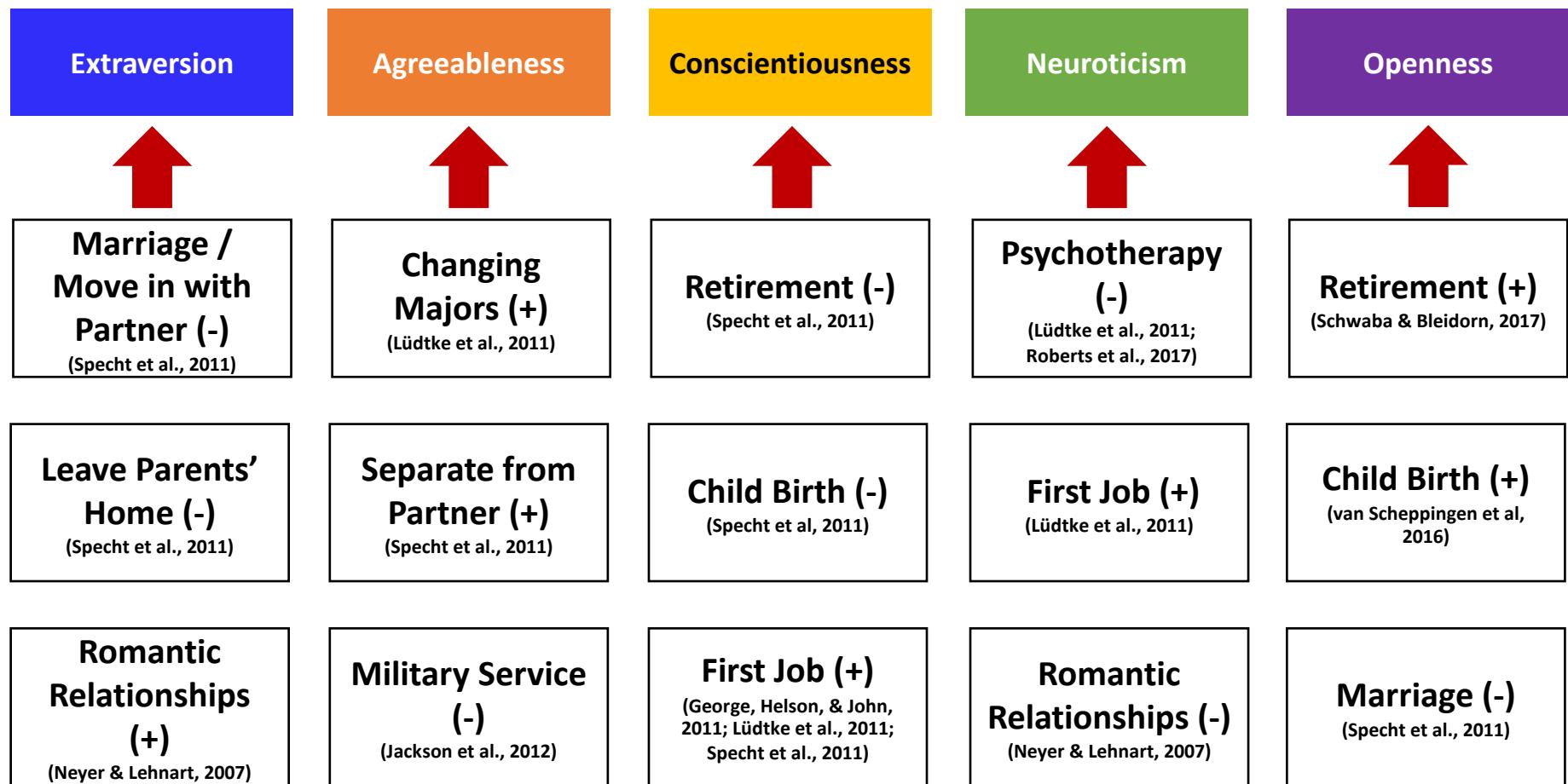
Lifespan

10-35

10-20

Roberts, Walton, & Viechtbauer, 2006

Socialization



Socialization

Limitations

Inconsistent Results

**Inattention to Third
Variables
(Selection Bias)**

Socialization

Limitations

Extraversion

Agreeableness

Conscientiousness

Neuroticism

Openness



Marriage /
Move in with
Partner (-)
(Specht et al., 2011)



Changing
Majors (+)
(Lüdtke et al., 2011)



Retirement (-)
(Specht et al., 2011)



Psychotherapy
(-)
(Lüdtke et al., 2011;
Roberts et al., 2017)



Retirement (+)
(Schwaba & Bleidorn, 2017)

Leave Parents'
Home (-)
(Specht et al., 2011)

Separate from
Partner (+)
(Specht et al., 2011)

Child Birth (-)
(Specht et al., 2011)

First Job (+)
(Lüdtke et al., 2011)

Child Birth (+)
(van Scheppingen et al,
2016)

Romantic
Relationships
(+)
(Neyer & Lehnart, 2007)

Military Service
(-)
(Jackson et al., 2012)

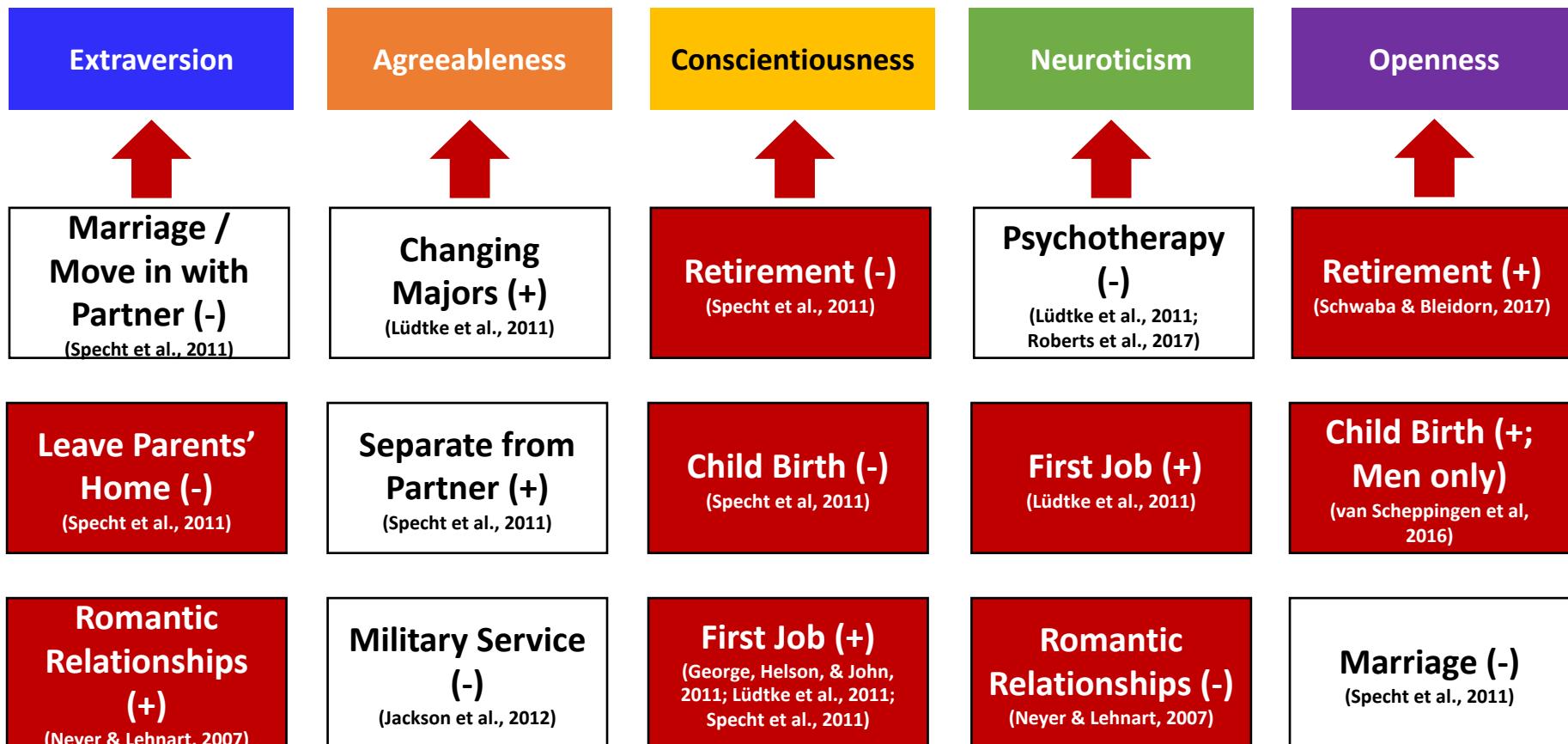
First Job (+)
(George, Helson, & John,
2011; Lüdtke et al., 2011;
Specht et al., 2011)

Romantic
Relationships (-)
(Neyer & Lehnart, 2007)

Marriage (-)
(Specht et al., 2011)

Socialization

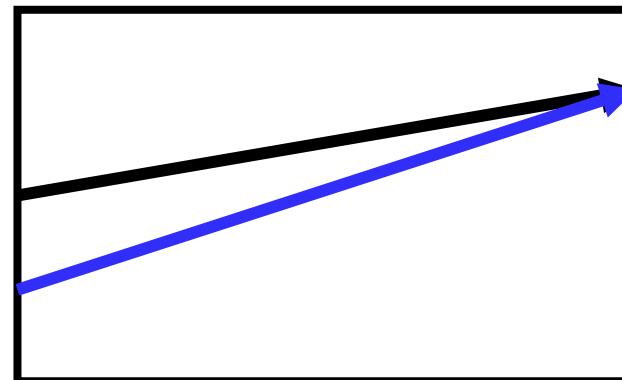
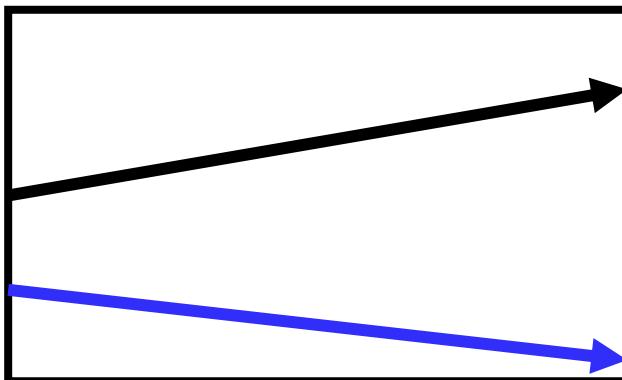
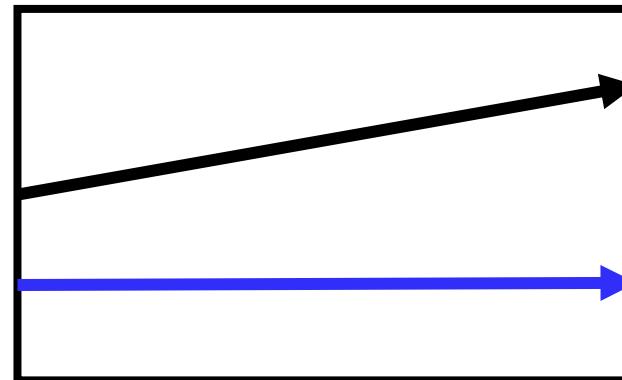
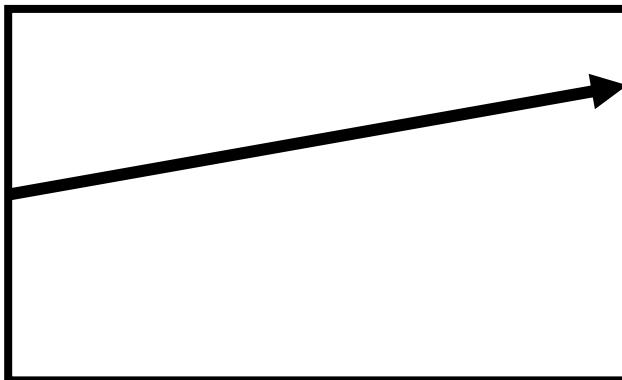
Limitations



Socialization

Limitations

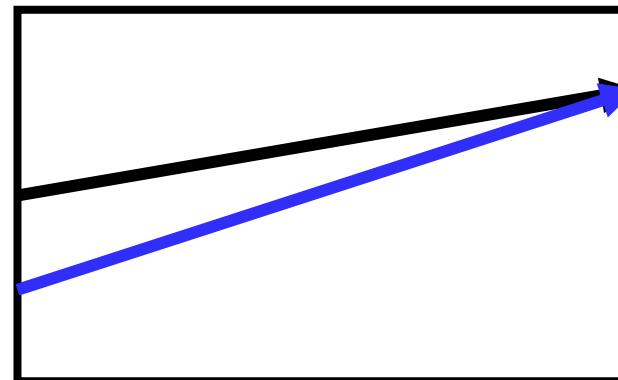
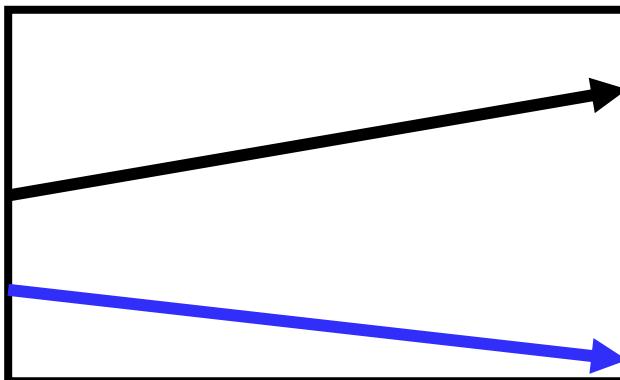
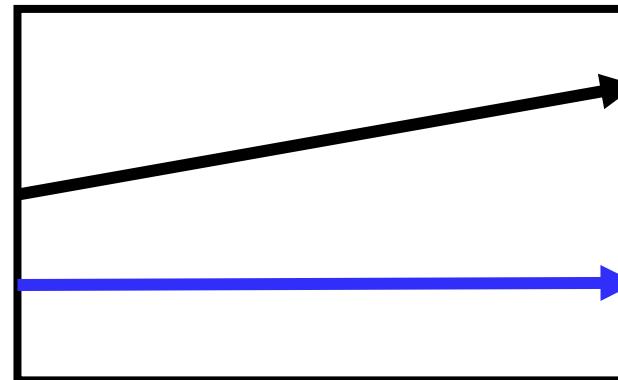
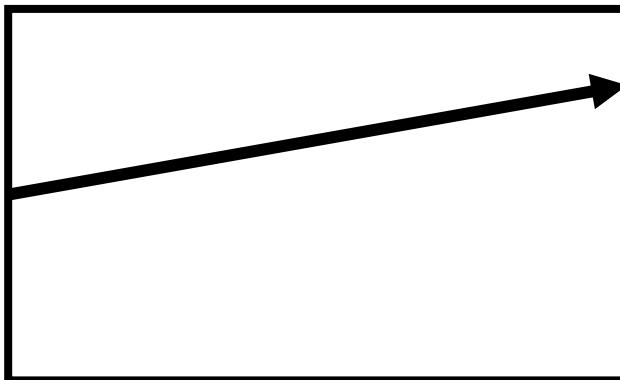
Selection Bias



Socialization

Limitations

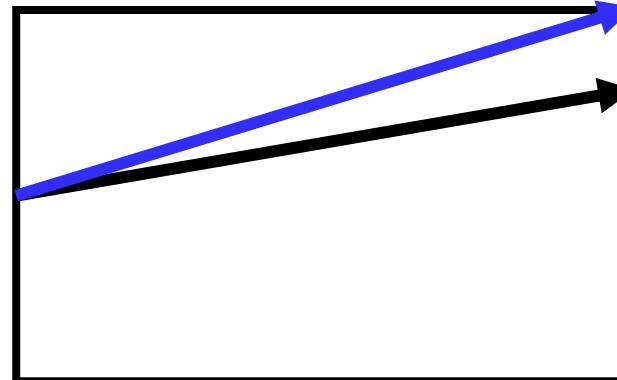
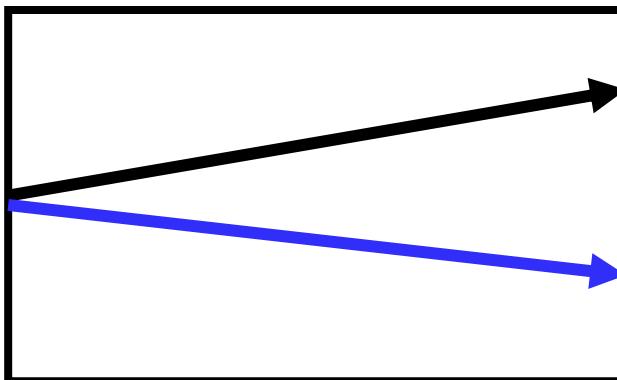
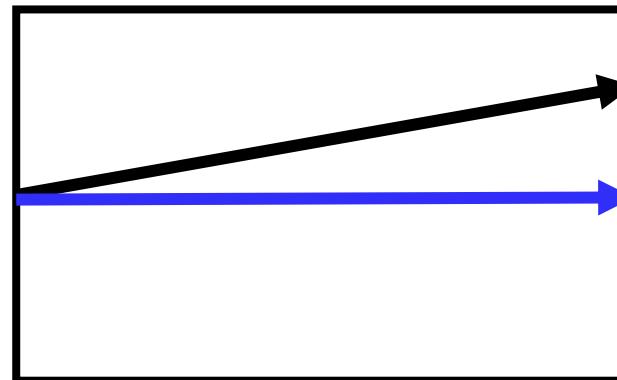
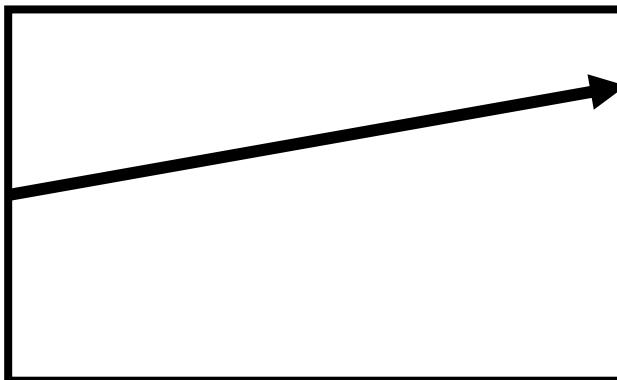
Selection Bias



Socialization

Limitations

Selection Bias





LIFETIME

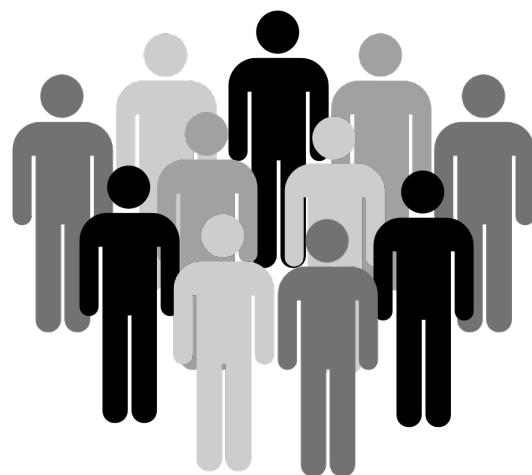
MARRIED AT FIRST SIGHT

TUESDAYS AT 9/8C

No Event

Event

Propensity Score Matching

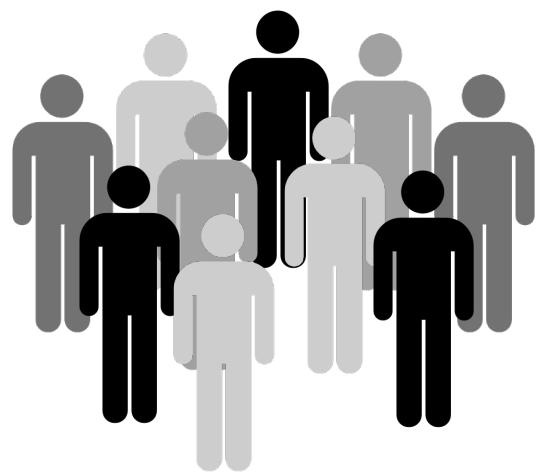


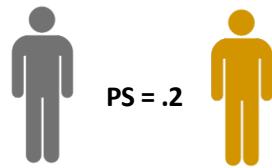
No Event

Event

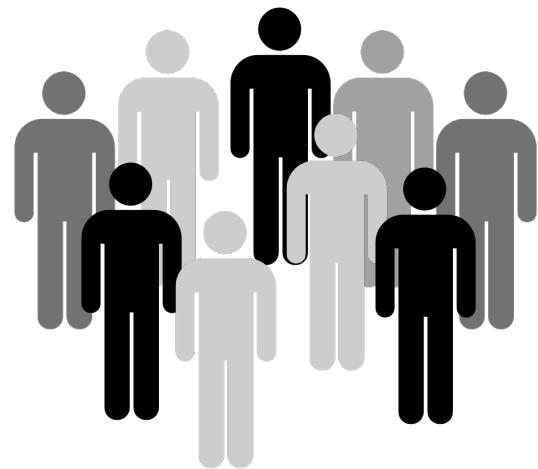


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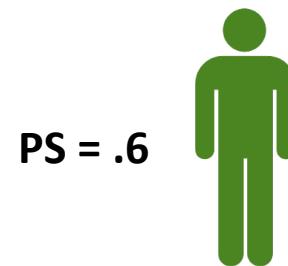


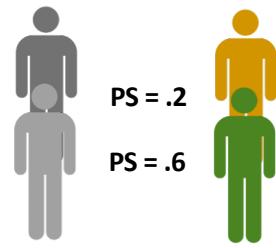


No Event



Event



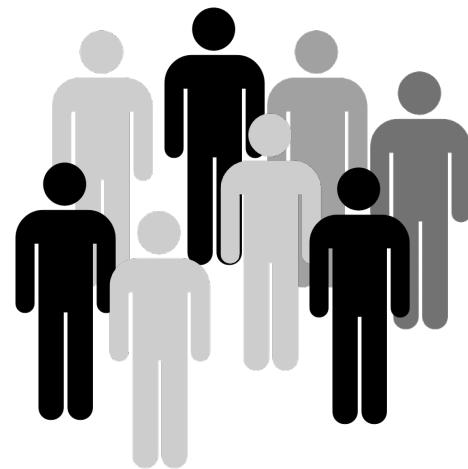


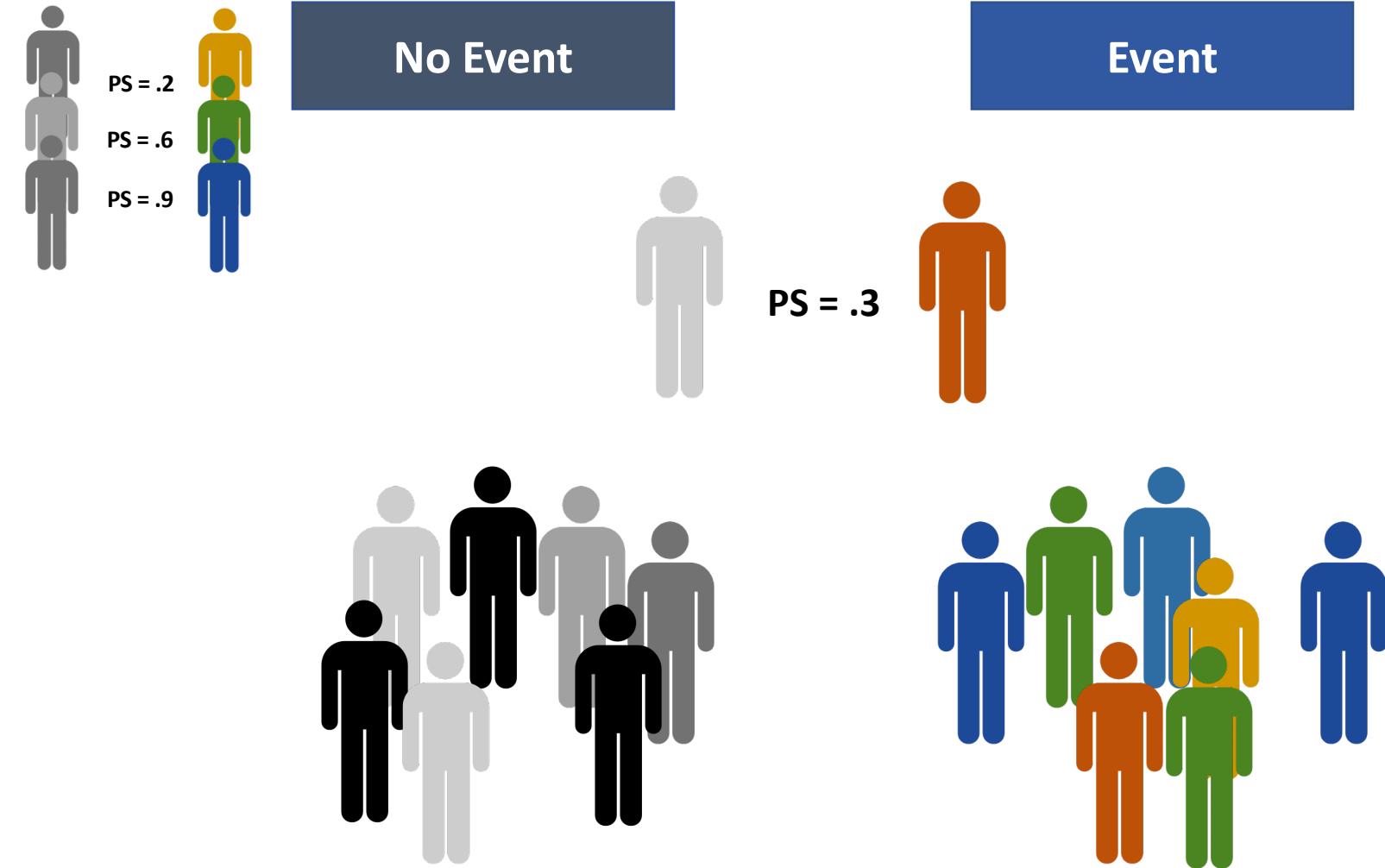
No Event

Event

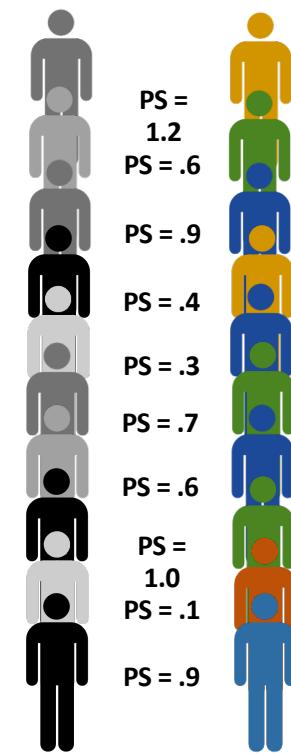


PS = .9

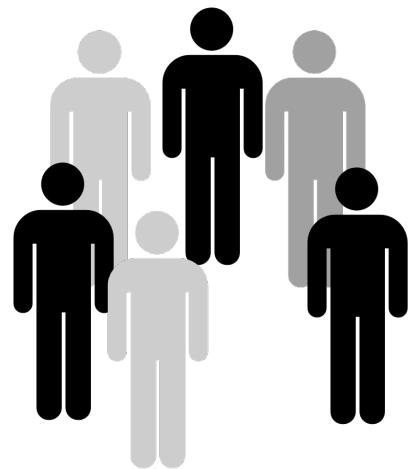




(Thoemmes & Kim, 2011)



No Event



Event



Propensity Score Matching

Socialization

E

A

C

N

O



Life Events

German Socioeconomic Panel Study (GSOEP)

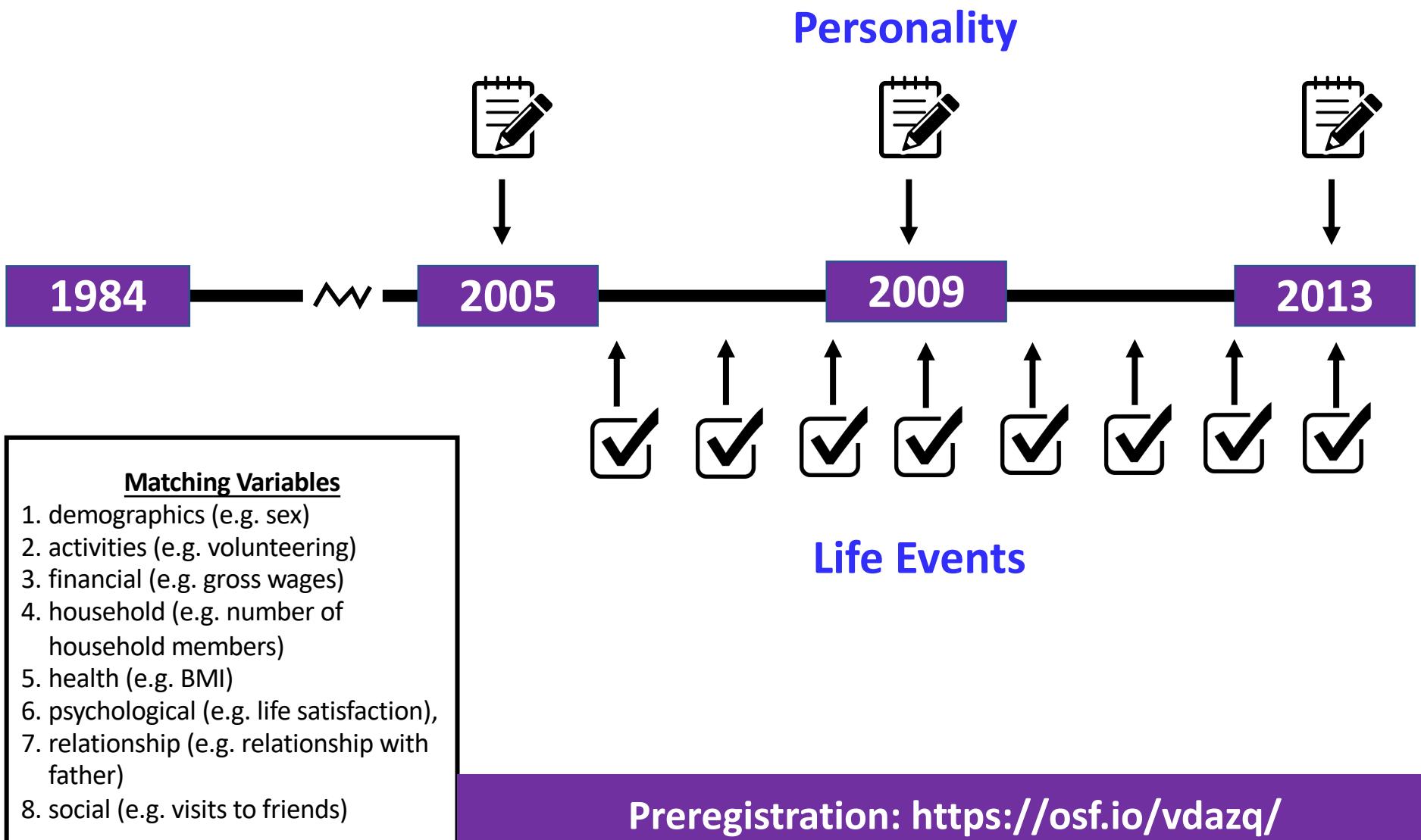


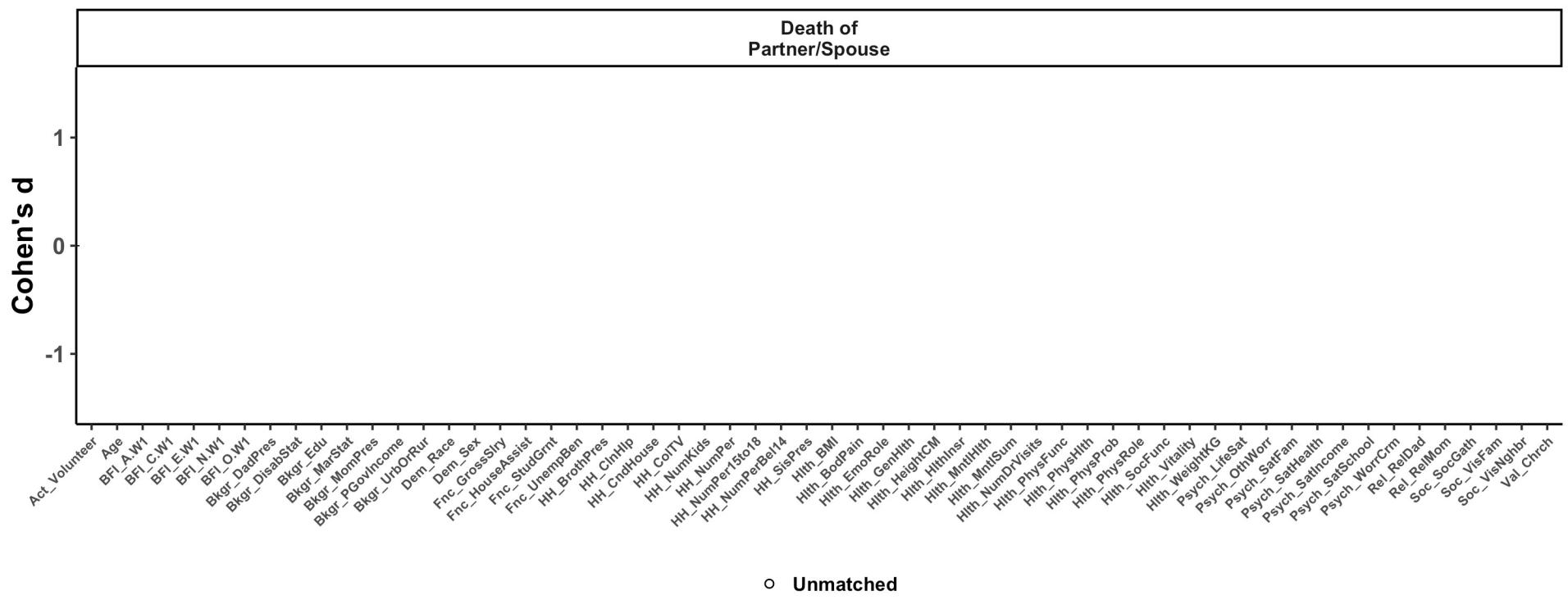
Matching Variables

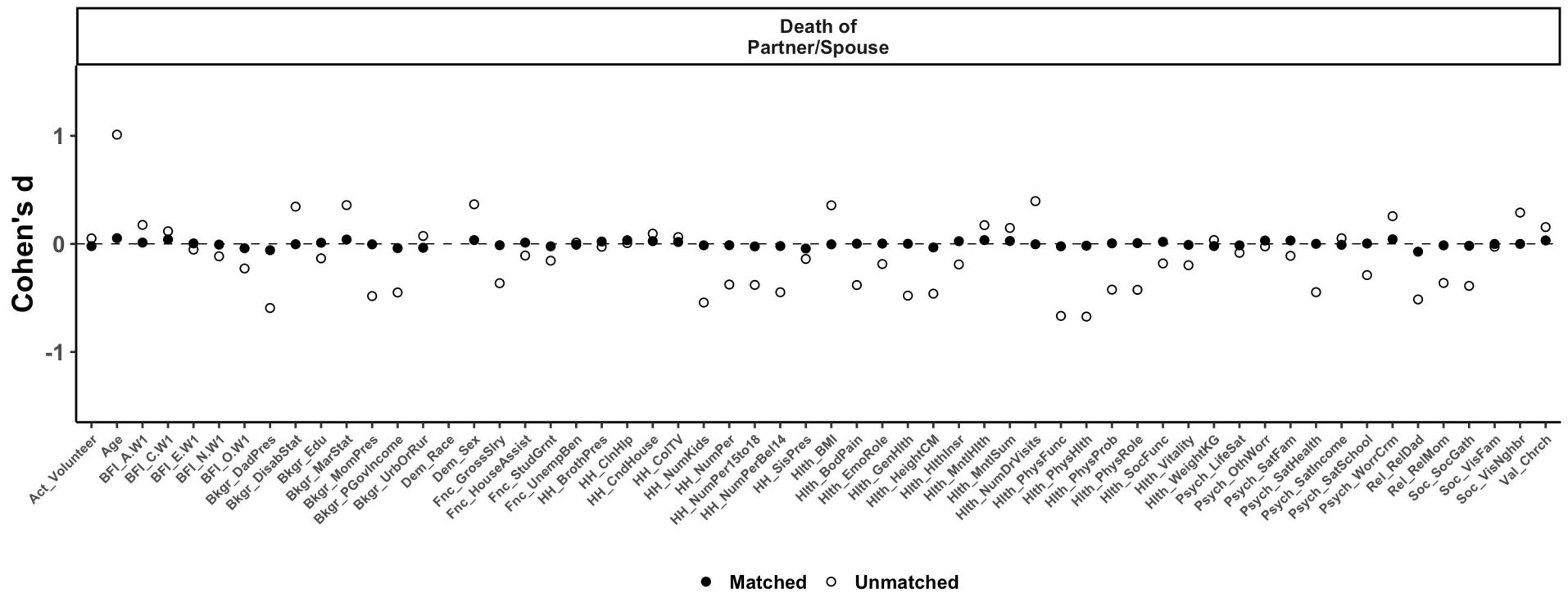
1. demographics (e.g. sex)
2. activities (e.g. volunteering)
3. financial (e.g. gross wages)
4. household (e.g. number of household members)
5. health (e.g. BMI)
6. psychological (e.g. life satisfaction),
7. relationship (e.g. relationship with father)
8. social (e.g. visits to friends)

Preregistration: <https://osf.io/vdazq/>

German Socioeconomic Panel Study (GSOEP)







Results

Socialization

E A C N O

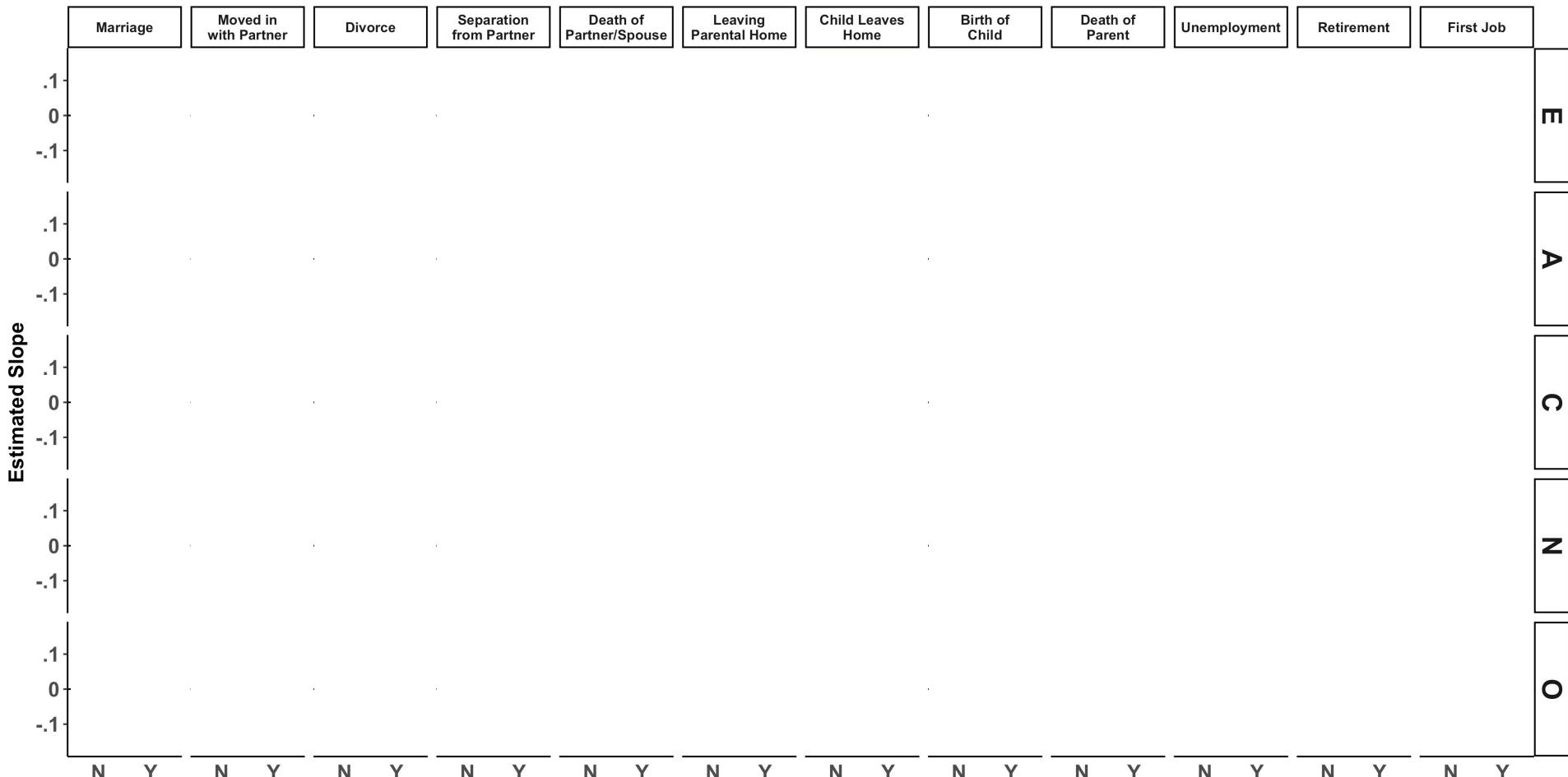


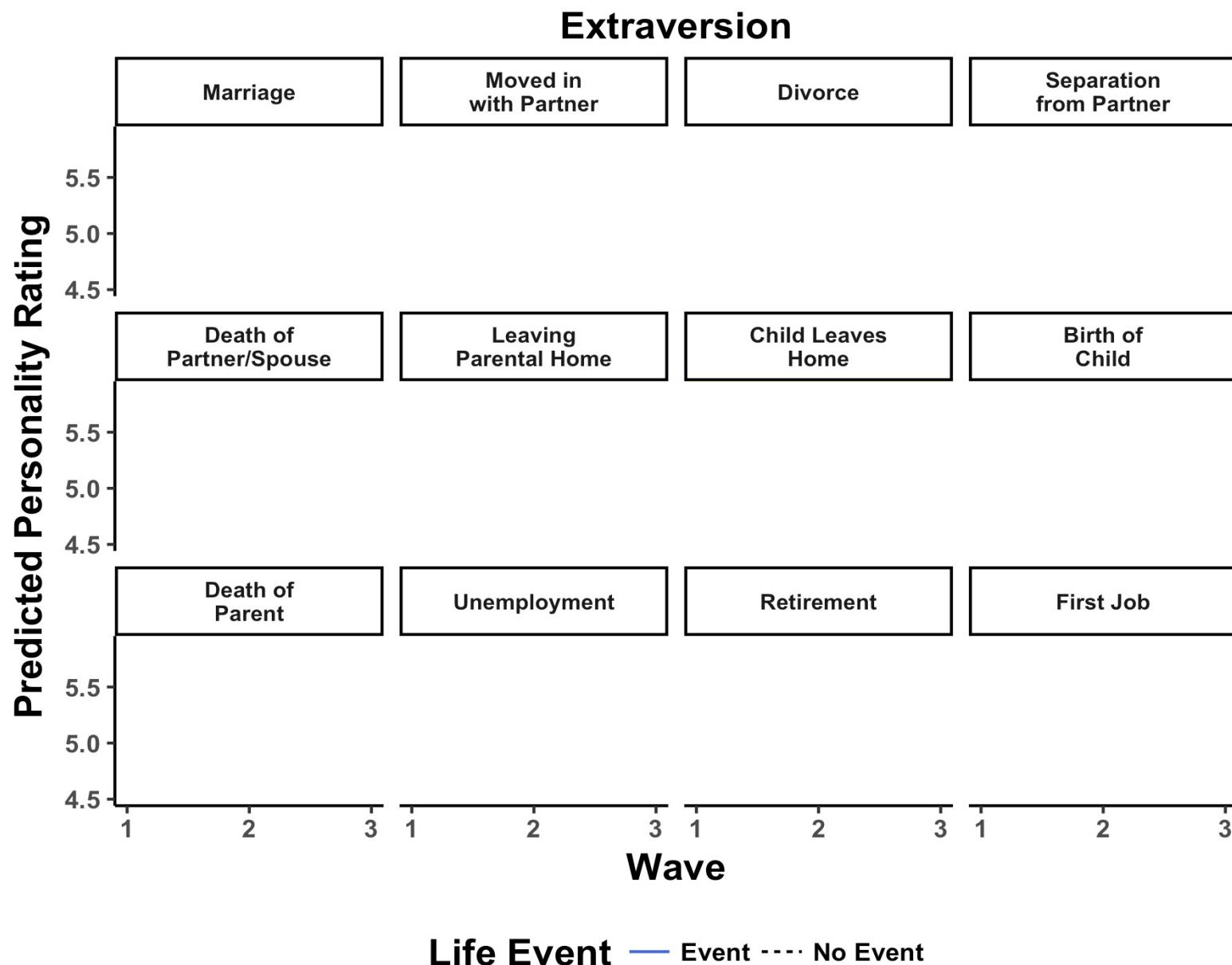
Life Events

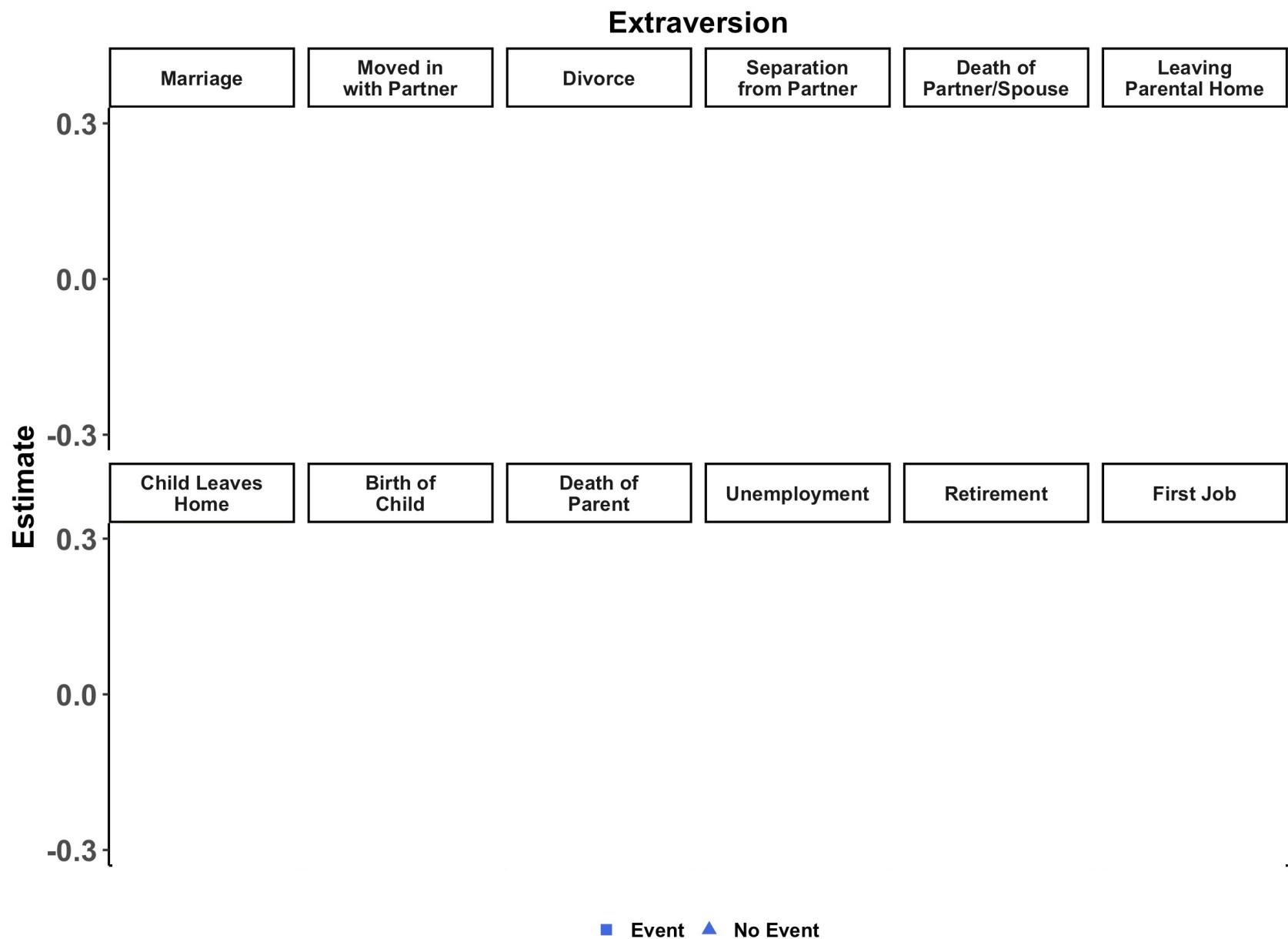
Selection

Socialization

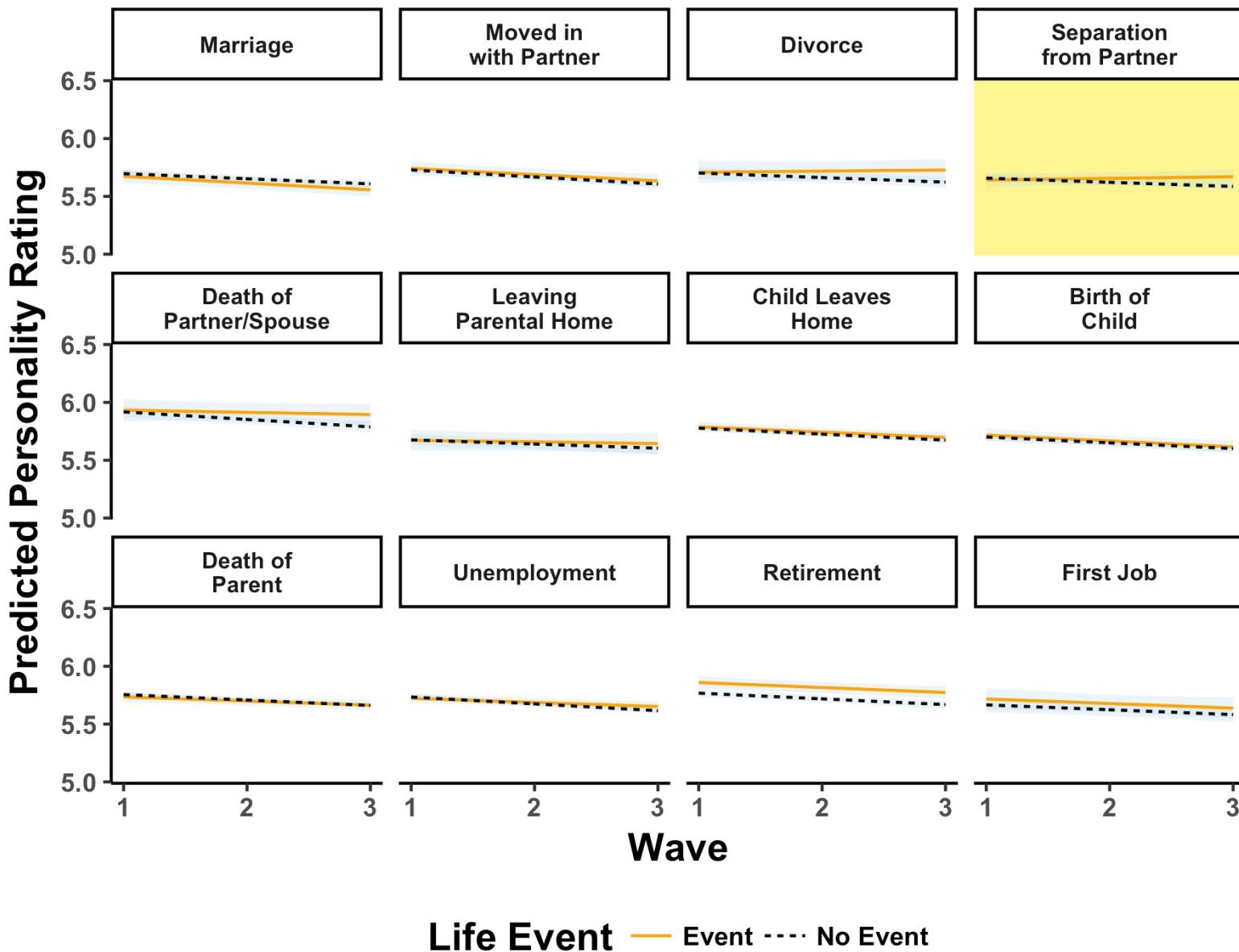
Individual Differences



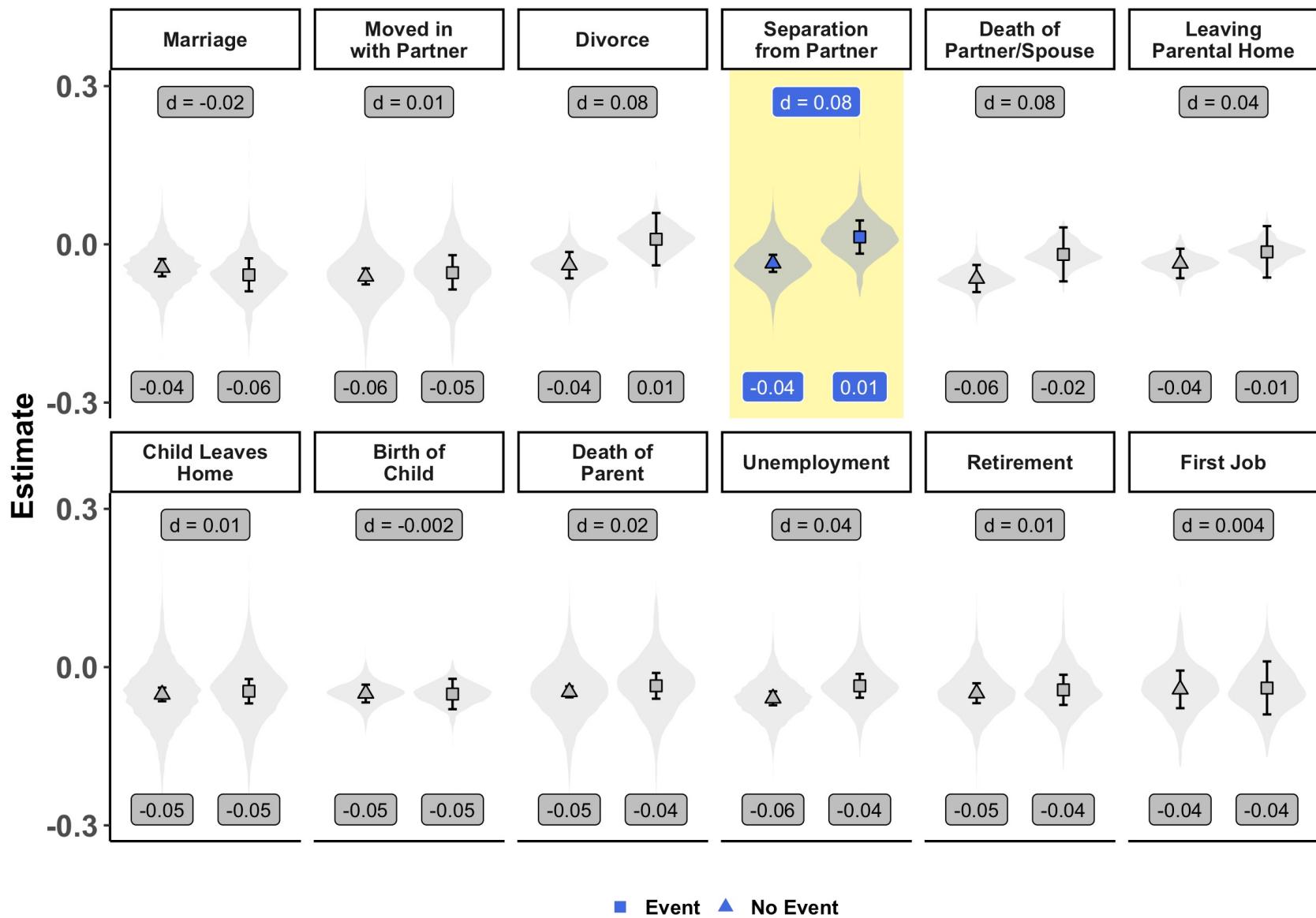




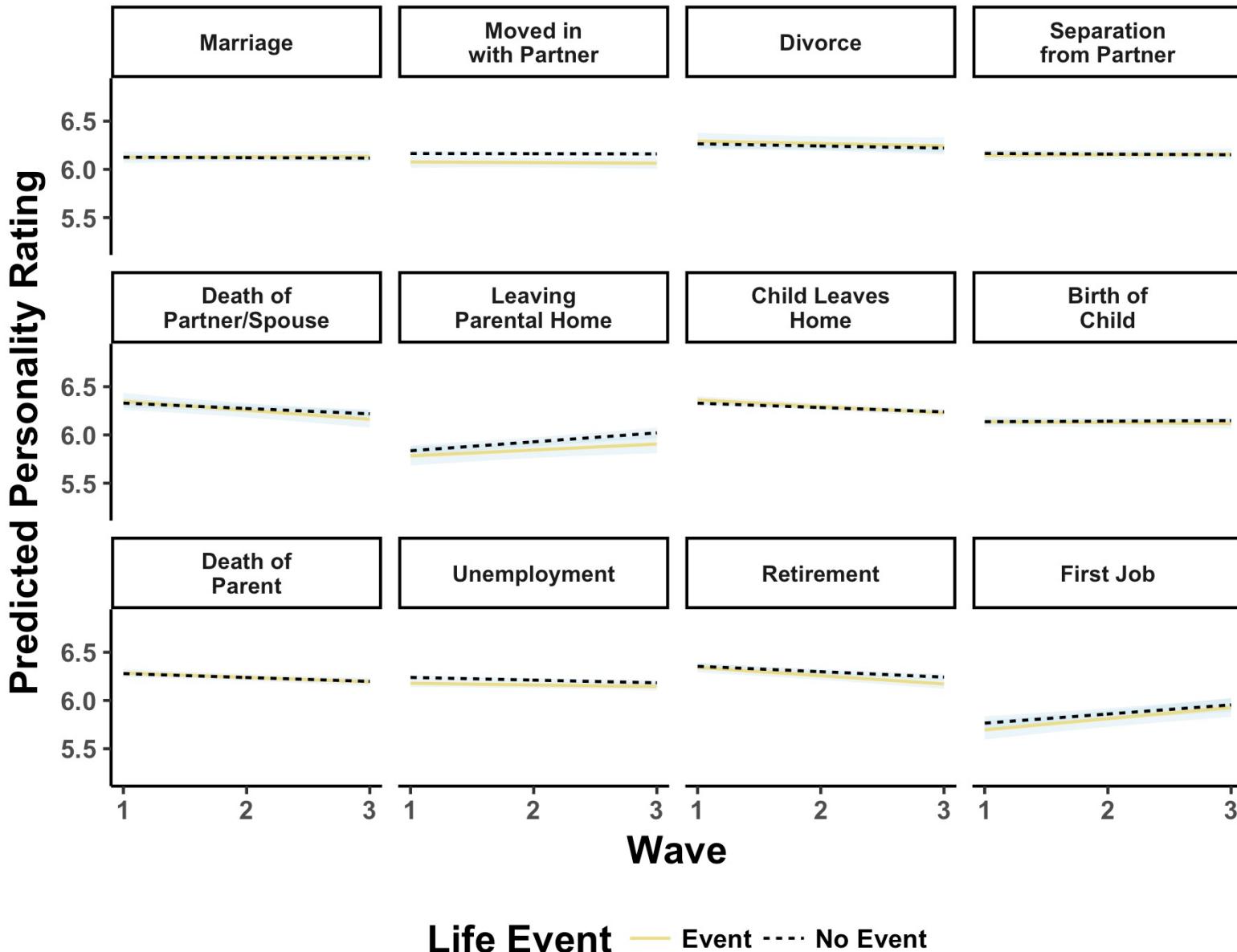
Agreeableness



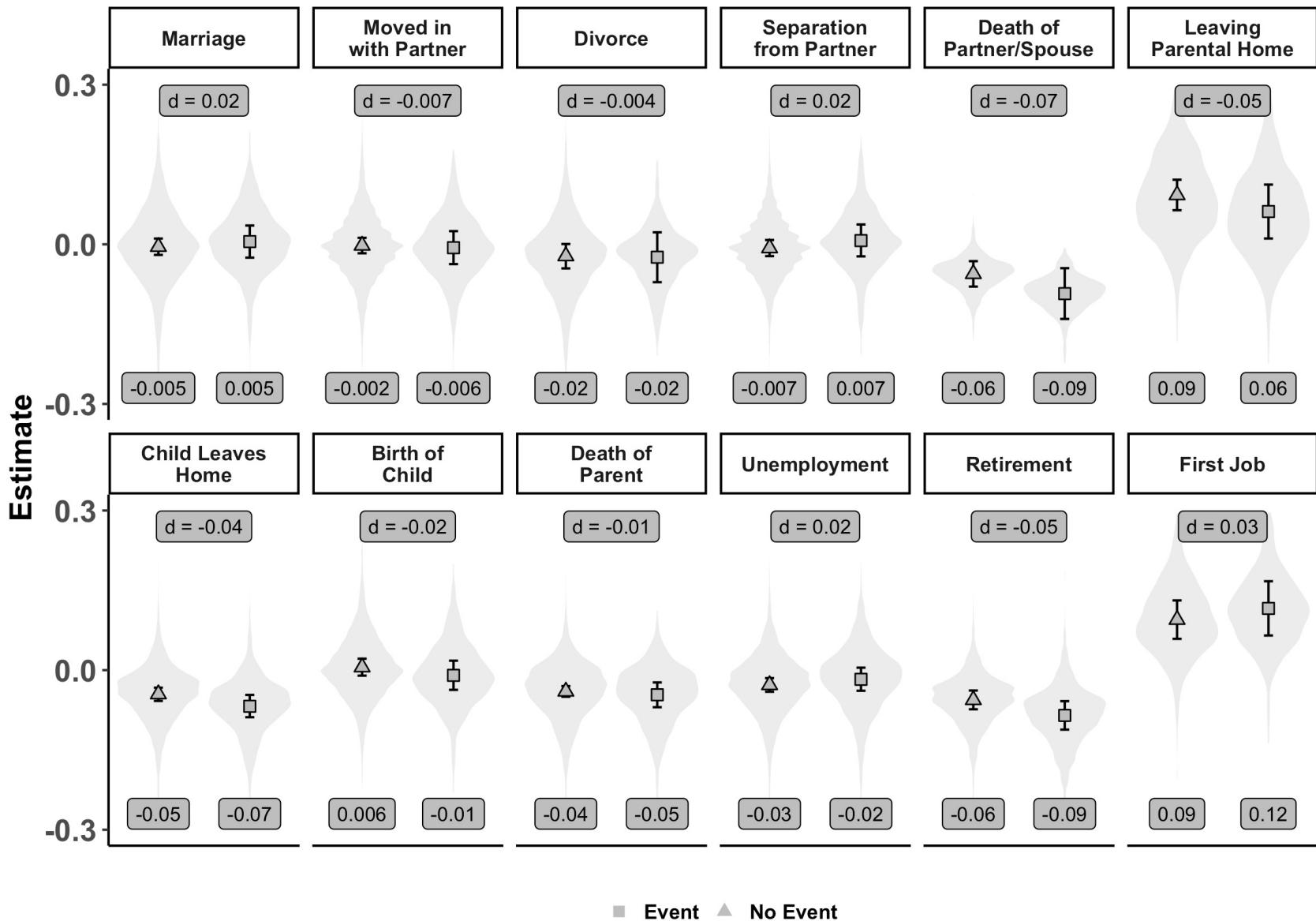
Agreeableness

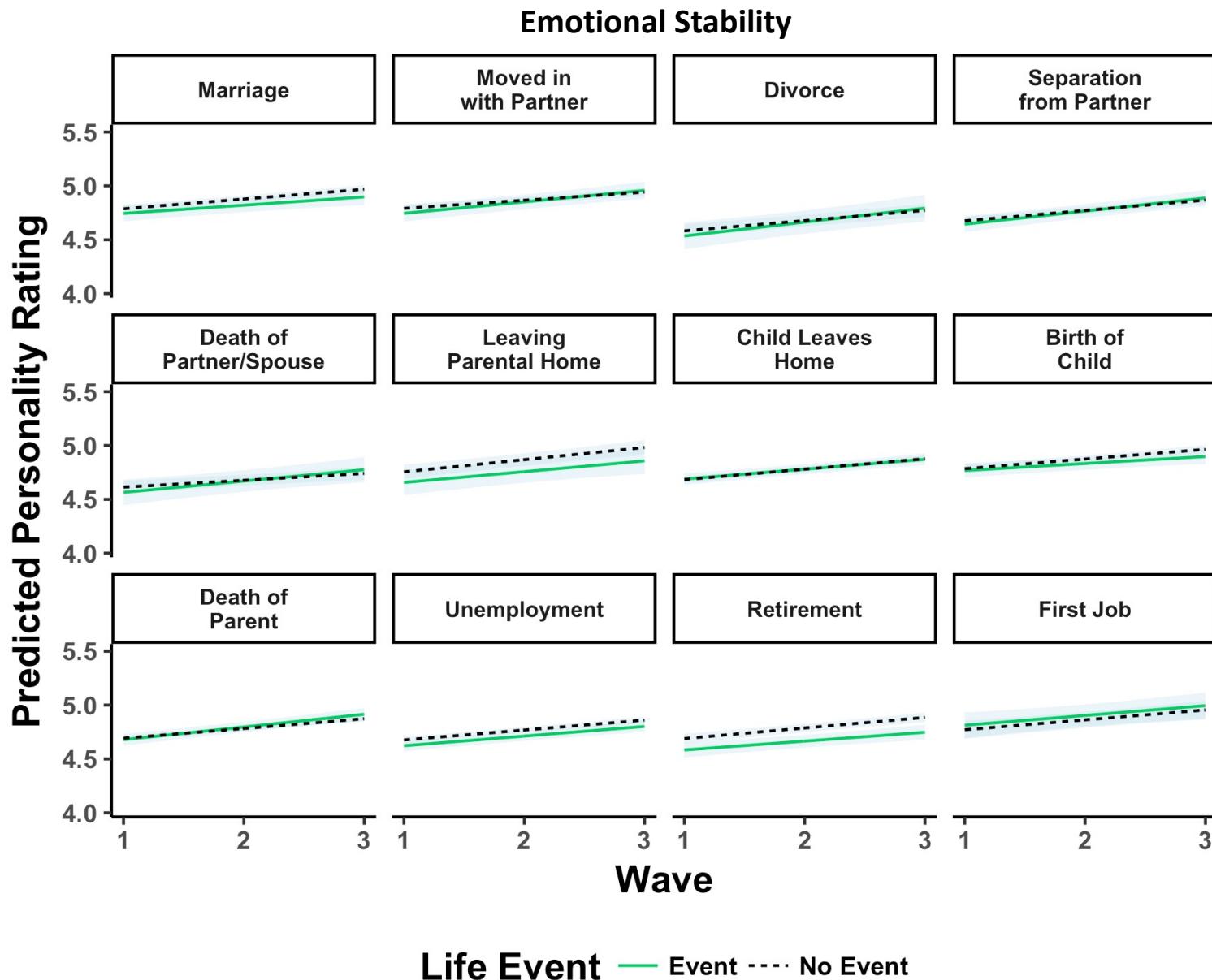


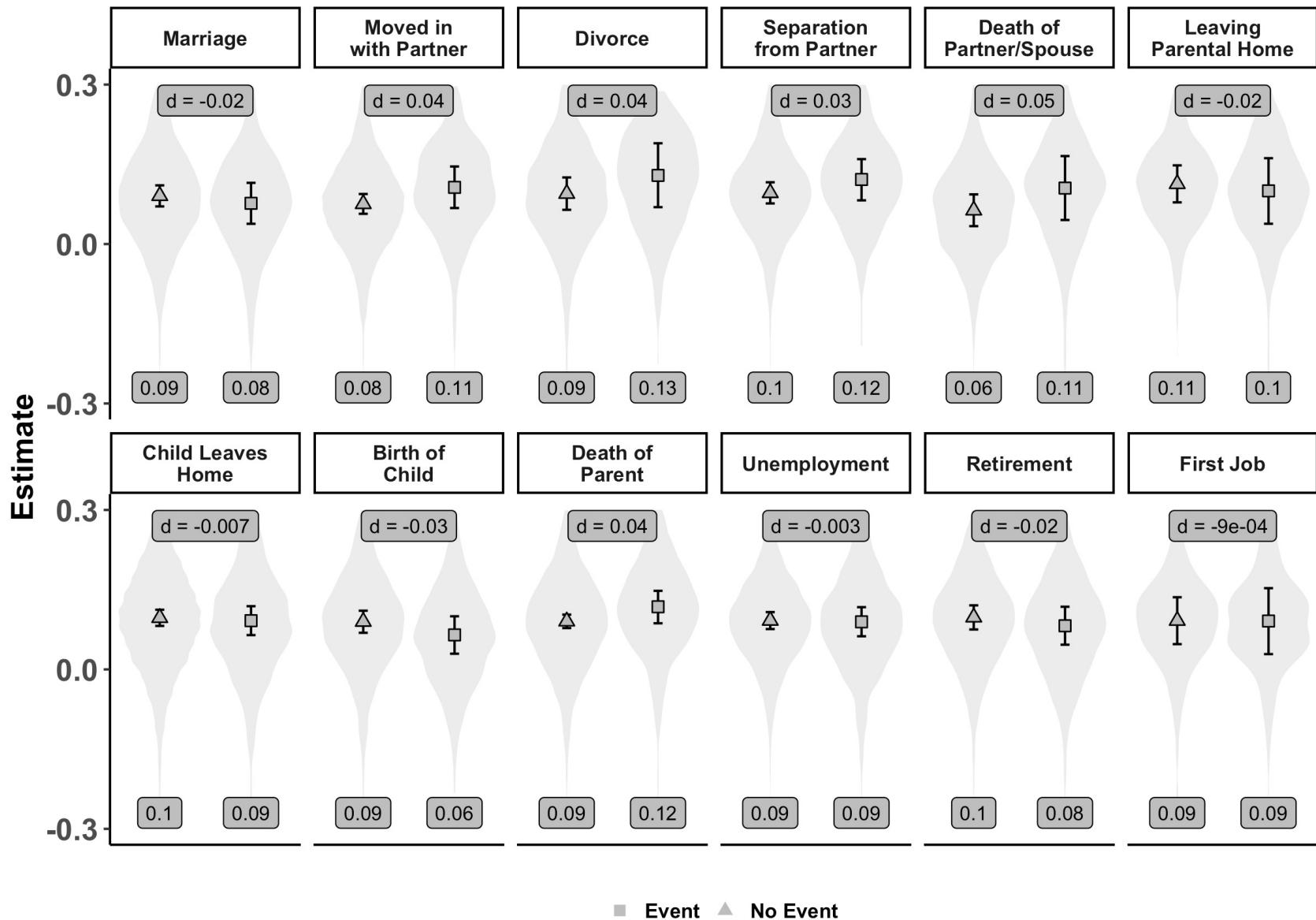
Conscientiousness



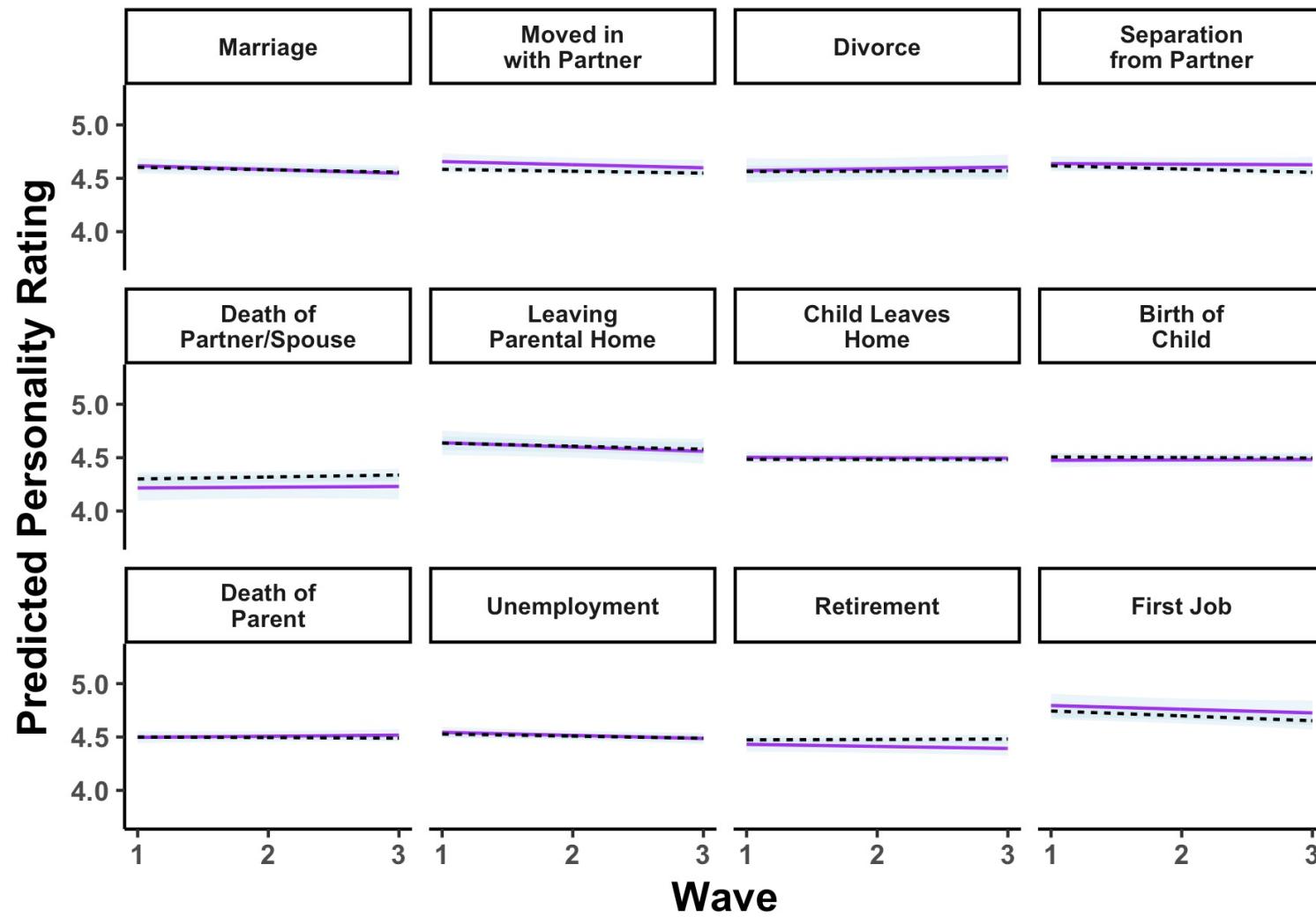
Conscientiousness





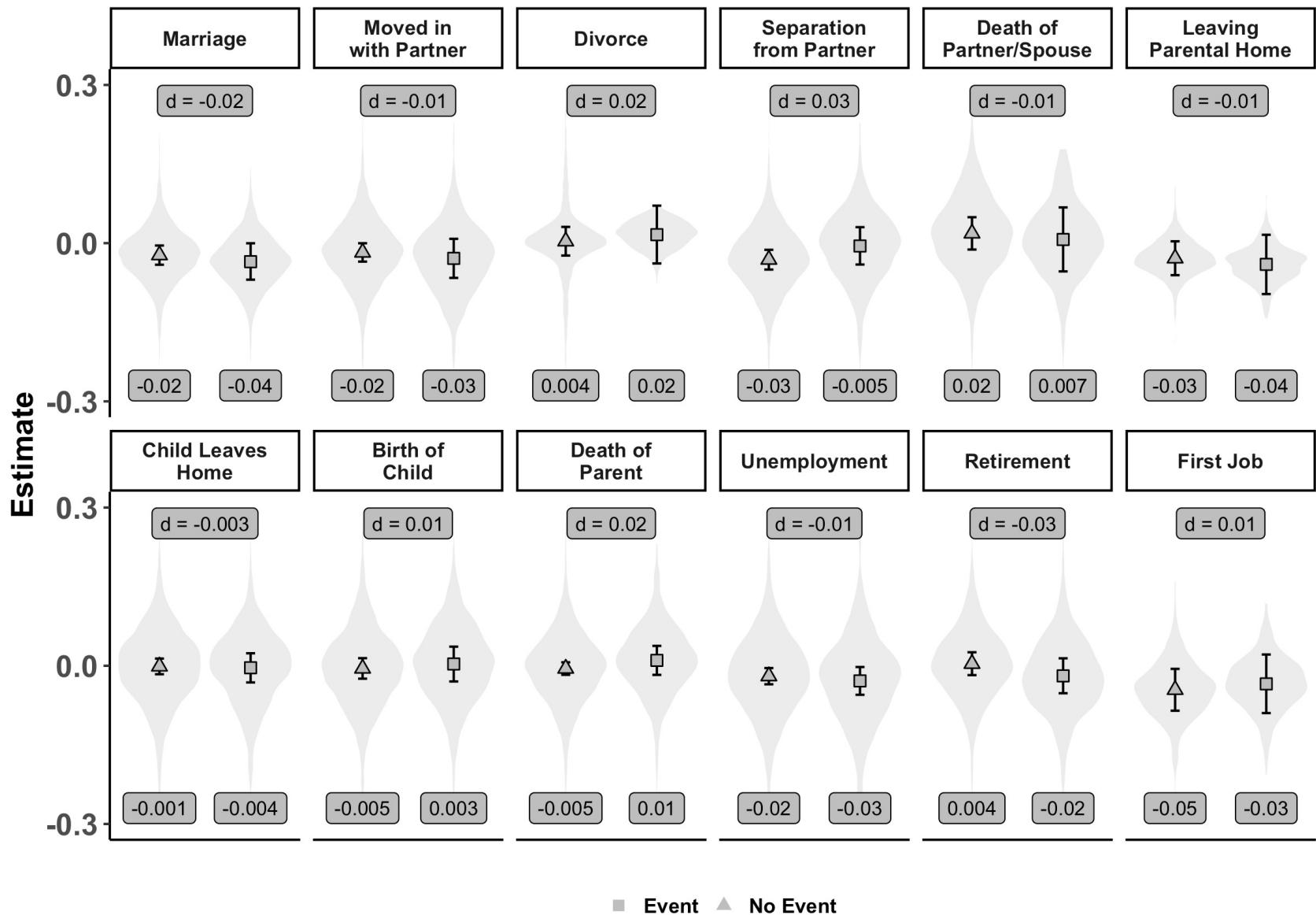
Emotional Stability

Openness



Life Event — Event ----- No Event

Openness



Conclusions

Socialization

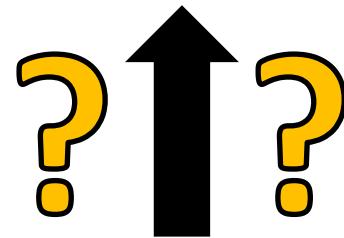
E

A

C

N

O

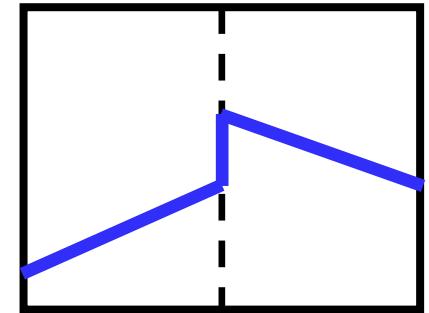
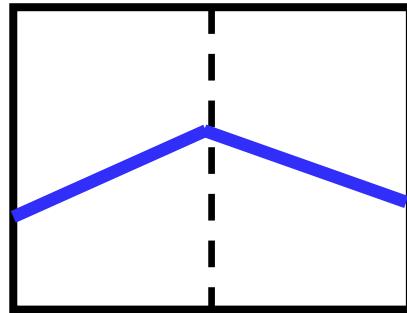
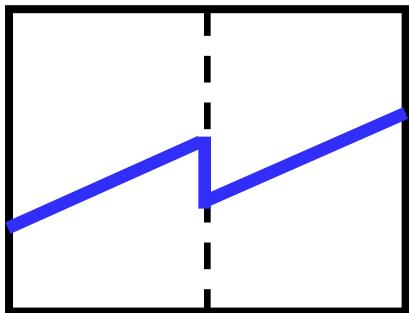
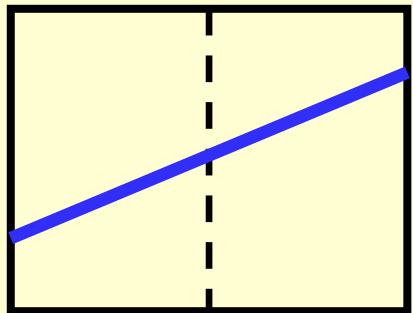
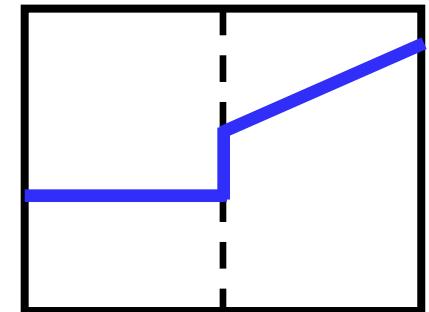
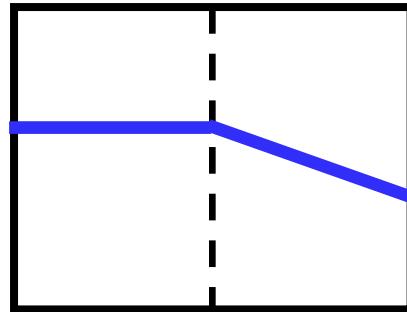
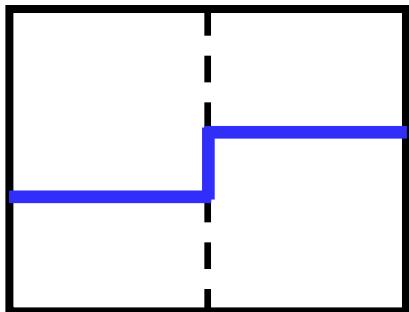
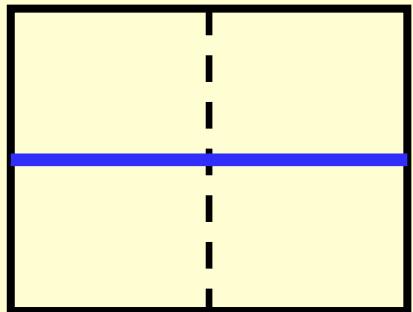


Life Events

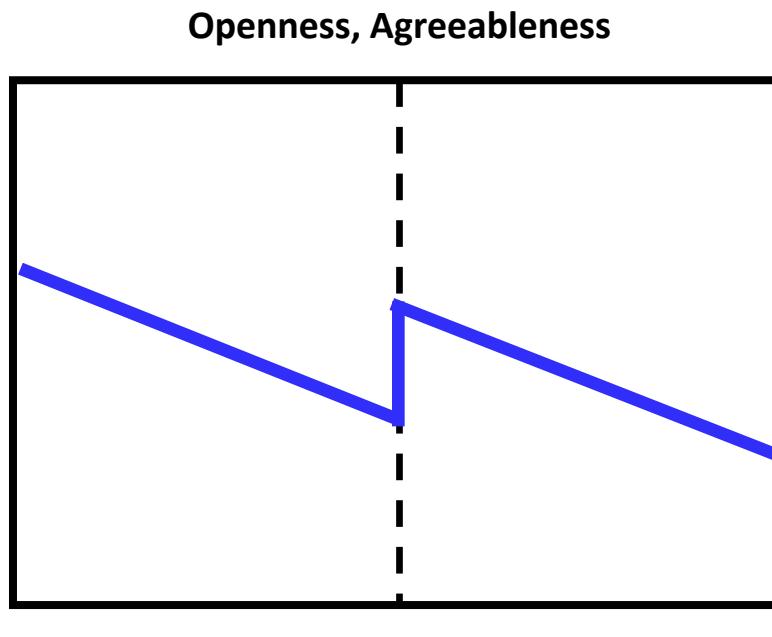
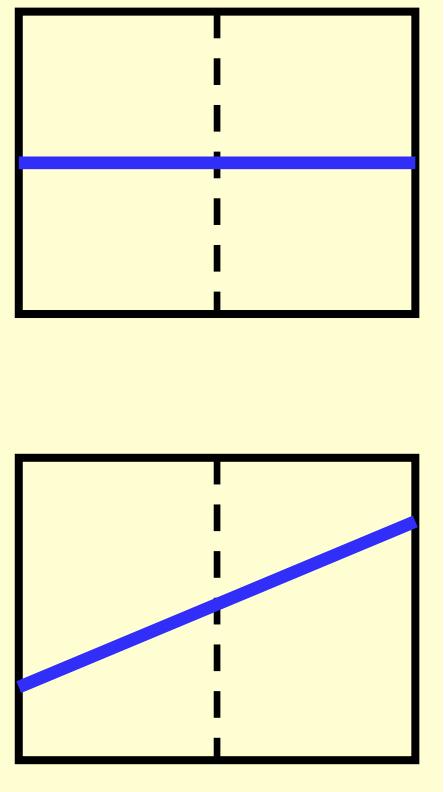
Selection

Socialization

Individual Differences



Schwaba & Bleidorn, 2017; Doss et al., 2009 ; Bleidorn et al., 2016



Schwaba & Bleidorn, 2017; Doss et al., 2009 ; Bleidorn et al., 2016

Questions?

Special Thanks to:

Josh Jackson

The PMaD Lab

Pat Hill

Tom Oltmanns



Results:

emoriebeck.github.io/life_events



Data and Code:

github.com/emoriebeck/life_events
osf.io/hy4da



Shiny App:

emoriebeck.shinyapps.io/life_events

TESSERA Framework

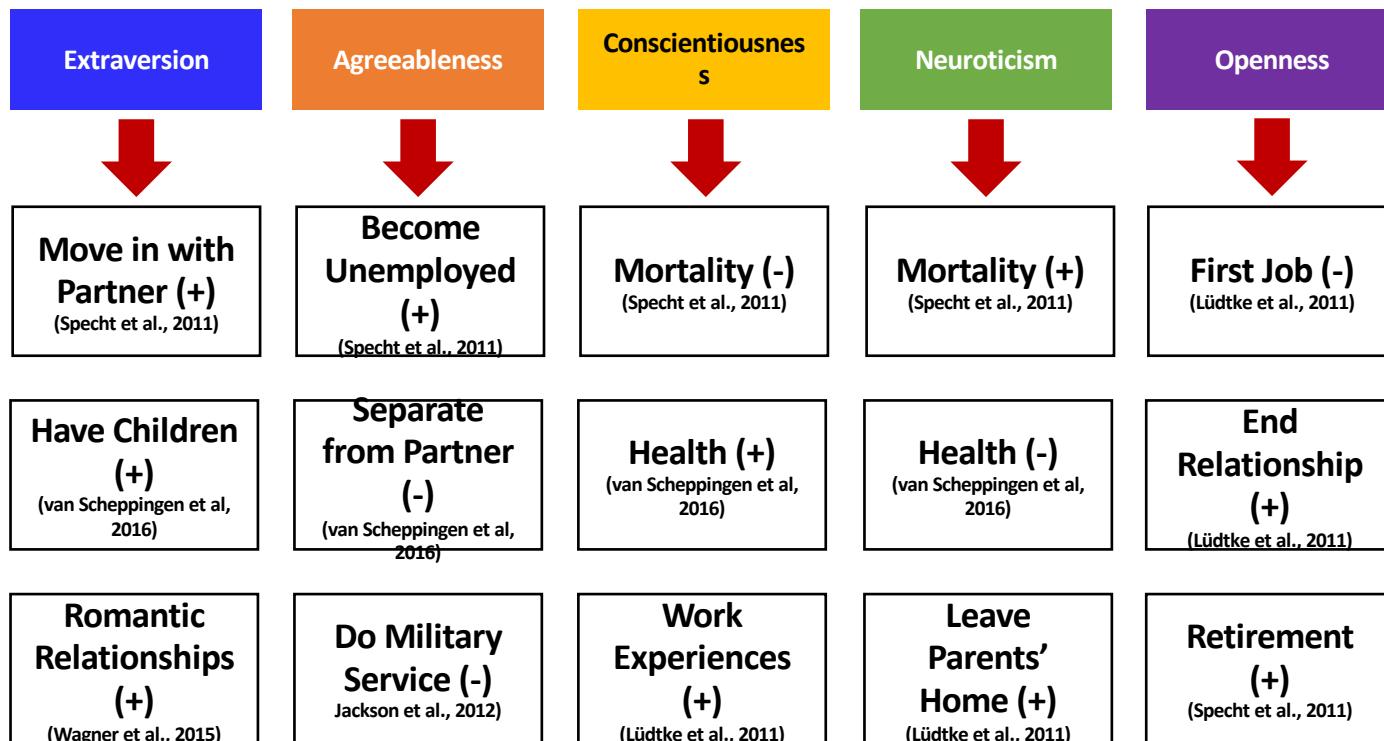
*T*riggering Situations

*E*xpectancies

*S*tates / *S*tate *E*xpressions

*R*e*A*cctions

Selection



Selection

Limitations

**Cross-Sectional
Design
(Reverse
Causality)**

**Inattention to
Third Variables
(Selection Bias)**

**Cross-Sectional
Design
(Reverse
Causality)**

Selection

Limitations

Personality



T1

T2



Life Events

Selection

Limitations

Personality

Cross-Sectional
Design
(Reverse
Causality)



T1

T2



Life Events

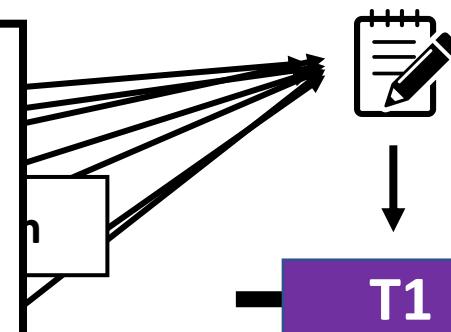
Selection

Limitations

Personality

Ag

Inattention to
Third Variables
(Selection Bias)



T1

T2



Life Events

Level 2

Table 3.6: Variance Terms

	A	C	E	N	O			
	b [HPDI]	d						
Mean								
τ_{01}	-0.24	[-0.28, -0.20]	-0.25	[-0.30, -0.20]	-0.17	[-0.22, -0.11]	-0.27	[-0.31, -0.23]
τ_{00}	0.79	[0.77, 0.82]	0.49	[0.47, 0.50]	0.44	[0.42, 0.46]	0.84	[0.81, 0.87]
τ_{11}	0.04	[0.03, 0.05]	0.03	[0.02, 0.04]	0.03	[0.02, 0.03]	0.06	[0.05, 0.07]
σ^2	0.46	[0.45, 0.47]	0.45	[0.44, 0.46]	0.39	[0.38, 0.39]	0.59	[0.58, 0.61]
Marriage								
σ^2	0.46	[0.44, 0.52]	0.45	[0.43, 0.46]	0.40	[0.37, 0.45]	0.60	[0.57, 0.67]
τ_{00}	0.82	[0.73, 0.90]	0.50	[0.46, 0.53]	0.49	[0.40, 0.55]	0.87	[0.77, 0.96]
τ_{01}	0.05	[0.03, 0.07]	0.02	[0.01, 0.03]	0.03	[0.02, 0.05]	0.07	[0.05, 0.09]
τ_{11}	-0.21	[-0.33, -0.12]	-0.21	[-0.35, -0.03]	-0.28	[-0.39, -0.20]	-0.27	[-0.37, -0.19]
Moved in with Partner								
σ^2	0.45	[0.44, 0.47]	0.44	[0.42, 0.48]	0.39	[0.37, 0.43]	0.59	[0.57, 0.61]
τ_{00}	0.82	[0.78, 0.87]	0.47	[0.41, 0.52]	0.49	[0.43, 0.54]	0.90	[0.85, 0.94]
τ_{01}	0.04	[0.03, 0.05]	0.03	[0.01, 0.05]	0.03	[0.02, 0.05]	0.06	[0.04, 0.07]
τ_{11}	-0.15	[-0.22, -0.07]	-0.21	[-0.34, -0.10]	-0.28	[-0.39, -0.20]	-0.25	[-0.31, -0.18]
Divorce								
σ^2	0.49	[0.46, 0.55]	0.44	[0.41, 0.46]	0.36	[0.34, 0.38]	0.57	[0.54, 0.61]
τ_{00}	0.71	[0.60, 0.79]	0.52	[0.47, 0.57]	0.42	[0.38, 0.46]	0.97	[0.89, 1.06]
τ_{01}	0.01	[0.00, 0.05]	0.01	[0.00, 0.03]	0.03	[0.01, 0.04]	0.06	[0.04, 0.09]
τ_{11}	0.03	[-0.37, 0.61]	-0.11	[-0.47, 0.41]	-0.13	[-0.28, 0.10]	-0.26	[-0.36, -0.14]
Separation from Partner								
σ^2	0.46	[0.45, 0.48]	0.45	[0.43, 0.46]	0.39	[0.38, 0.40]	0.62	[0.58, 0.73]
τ_{00}	0.84	[0.80, 0.89]	0.51	[0.48, 0.54]	0.48	[0.45, 0.51]	0.82	[0.67, 0.93]
τ_{01}	0.04	[0.02, 0.05]	0.02	[0.01, 0.03]	0.03	[0.02, 0.04]	0.06	[0.04, 0.10]
τ_{11}	-0.16	[-0.24, -0.08]	-0.26	[-0.39, -0.10]	-0.26	[-0.33, -0.17]	-0.25	[-0.40, -0.15]
Death of Spouse								
σ^2	0.50	[0.47, 0.53]	0.50	[0.48, 0.53]	0.43	[0.41, 0.45]	0.61	[0.58, 0.64]
τ_{00}	0.74	[0.67, 0.81]	0.50	[0.45, 0.55]	0.41	[0.37, 0.45]	0.91	[0.83, 1.00]
τ_{01}	0.03	[0.01, 0.05]	0.01	[0.00, 0.03]	0.01	[0.00, 0.03]	0.06	[0.03, 0.09]
τ_{11}	-0.31	[-0.48, -0.15]	-0.20	[-0.65, 0.34]	-0.02	[-0.32, 0.47]	-0.31	[-0.43, -0.20]
Leaving Parental Home								
σ^2	0.47	[0.44, 0.50]	0.44	[0.42, 0.47]	0.41	[0.38, 0.43]	0.62	[0.50, 0.66]
τ_{00}	0.86	[0.78, 0.94]	0.45	[0.40, 0.50]	0.61	[0.55, 0.68]	0.84	[0.75, 0.93]
τ_{01}	0.04	[0.02, 0.07]	0.01	[0.00, 0.03]	0.04	[0.02, 0.06]	0.06	[0.03, 0.09]
τ_{11}	-0.21	[-0.33, -0.07]	-0.07	[-0.53, 0.58]	-0.39	[-0.49, -0.28]	-0.16	[-0.31, 0.06]
Child Leaves Home								
σ^2	0.48	[0.44, 0.55]	0.44	[0.43, 0.46]	0.37	[0.36, 0.38]	0.58	[0.56, 0.59]
τ_{00}	0.70	[0.59, 0.81]	0.51	[0.49, 0.54]	0.41	[0.39, 0.43]	0.89	[0.85, 0.93]
τ_{01}	0.05	[0.03, 0.07]	0.03	[0.02, 0.04]	0.03	[0.02, 0.04]	0.07	[0.06, 0.08]
τ_{11}	-0.22	[-0.35, -0.15]	-0.22	[-0.28, -0.15]	-0.13	[-0.21, -0.03]	-0.27	[-0.31, -0.22]
Birth of Child								
σ^2	0.47	[0.45, 0.53]	0.46	[0.44, 0.48]	0.38	[0.36, 0.39]	0.60	[0.56, 0.70]
τ_{00}	0.83	[0.72, 0.89]	0.47	[0.43, 0.50]	0.51	[0.48, 0.54]	0.82	[0.66, 0.93]
τ_{01}	0.04	[0.03, 0.07]	0.01	[0.00, 0.02]	0.03	[0.02, 0.04]	0.07	[0.05, 0.10]
τ_{11}	-0.17	[-0.25, -0.08]	-0.02	[-0.28, 0.43]	-0.30	[-0.37, -0.22]	-0.28	[-0.42, -0.20]
Death of Parent								
σ^2	0.47	[0.44, 0.55]	0.45	[0.43, 0.46]	0.40	[0.37, 0.46]	0.63	[0.57, 0.81]
τ_{00}	0.76	[0.65, 0.83]	0.48	[0.40, 0.54]	0.37	[0.30, 0.45]	0.76	[0.52, 0.93]
τ_{01}	0.04	[0.03, 0.07]	0.03	[0.02, 0.05]	0.03	[0.02, 0.05]	0.07	[0.05, 0.12]
τ_{11}	-0.22	[-0.32, -0.16]	-0.23	[-0.32, -0.15]	-0.20	[-0.36, -0.09]	-0.27	[-0.43, -0.21]
Unemployment								
σ^2	0.48	[0.44, 0.55]	0.46	[0.45, 0.47]	0.41	[0.38, 0.46]	0.63	[0.59, 0.72]
τ_{00}	0.78	[0.67, 0.86]	0.51	[0.48, 0.53]	0.43	[0.37, 0.50]	0.78	[0.64, 0.88]
τ_{01}	0.05	[0.04, 0.09]	0.02	[0.01, 0.03]	0.03	[0.02, 0.05]	0.06	[0.04, 0.10]
τ_{11}	-0.22	[-0.32, -0.14]	-0.23	[-0.31, -0.12]	-0.27	[-0.43, -0.17]	-0.24	[-0.36, -0.16]
Retirement								
σ^2	0.44	[0.43, 0.46]	0.45	[0.43, 0.46]	0.39	[0.37, 0.40]	0.62	[0.59, 0.68]
τ_{00}	0.83	[0.78, 0.88]	0.57	[0.53, 0.61]	0.43	[0.40, 0.46]	0.93	[0.83, 1.02]
τ_{01}	0.04	[0.03, 0.06]	0.02	[0.01, 0.04]	0.03	[0.01, 0.04]	0.07	[0.05, 0.09]
τ_{11}	-0.31	[-0.37, -0.24]	-0.28	[-0.38, -0.16]	-0.13	[-0.23, 0.01]	-0.30	[-0.37, -0.23]
First Job								
σ^2	0.50	[0.46, 0.54]	0.44	[0.41, 0.48]	0.43	[0.40, 0.47]	0.64	[0.59, 0.69]
τ_{00}	0.84	[0.75, 0.93]	0.48	[0.41, 0.54]	0.62	[0.55, 0.70]	0.85	[0.75, 0.96]
τ_{01}	0.04	[0.01, 0.07]	0.02	[0.00, 0.05]	0.04	[0.01, 0.06]	0.06	[0.02, 0.10]
τ_{11}	-0.14	[-0.32, 0.13]	-0.23	[-0.51, 0.18]	-0.35	[-0.51, -0.18]	-0.17	[-0.34, 0.08]

Table 3.1: Matched and Unmatched Effects of Baseline Personality on the Probability of Experiencing Specific Life Events

	E		A		C		N		O	
	Matched	Unmatched								
	OR [HPDI]									
Marriage	1.07 [1.01, 1.14]	1.15 [1.09, 1.22]	0.98 [0.91, 1.06]	0.90 [0.84, 0.96]	1.02 [0.94, 1.09]	0.84 [0.78, 0.90]	0.98 [0.93, 1.04]	1.03 [0.98, 1.09]	1.05 [0.99, 1.11]	1.12 [1.06, 1.19]
Moved in with Partner	1.16 [1.09, 1.24]	1.25 [1.17, 1.33]	1.04 [0.96, 1.12]	0.96 [0.90, 1.03]	0.89 [0.83, 0.96]	0.77 [0.72, 0.83]	0.99 [0.94, 1.05]	1.03 [0.97, 1.08]	1.06 [1.00, 1.13]	1.12 [1.06, 1.19]
Divorce	1.08 [0.98, 1.20]	1.13 [1.03, 1.24]	0.95 [0.84, 1.07]	0.91 [0.82, 1.02]	1.02 [0.89, 1.16]	1.01 [0.90, 1.14]	0.94 [0.86, 1.03]	0.90 [0.82, 0.97]	1.06 [0.96, 1.17]	1.06 [0.97, 1.15]
Separation from Partner	1.08 [1.02, 1.15]	1.16 [1.09, 1.23]	0.90 [0.84, 0.97]	0.86 [0.80, 0.91]	0.96 [0.89, 1.04]	0.85 [0.79, 0.91]	0.95 [0.90, 1.01]	0.95 [0.90, 1.00]	1.07 [1.01, 1.14]	1.13 [1.07, 1.19]
Death of Partner/Spouse	1.01 [0.91, 1.12]	0.95 [0.87, 1.04]	1.03 [0.92, 1.15]	1.20 [1.08, 1.33]	1.05 [0.93, 1.19]	1.14 [1.02, 1.29]	1.02 [0.93, 1.11]	0.91 [0.84, 0.99]	0.93 [0.85, 1.02]	0.83 [0.77, 0.90]
Leaving Parental Home	0.98 [0.89, 1.09]	1.08 [0.99, 1.19]	1.00 [0.89, 1.13]	0.90 [0.82, 1.00]	0.95 [0.84, 1.06]	0.60 [0.54, 0.66]	0.87 [0.79, 0.96]	0.96 [0.88, 1.04]	1.01 [0.91, 1.12]	1.14 [1.04, 1.24]
Child Leaves Home	1.03 [0.98, 1.08]	1.04 [1.00, 1.09]	1.02 [0.97, 1.08]	1.02 [0.97, 1.07]	1.08 [1.02, 1.15]	1.16 [1.10, 1.23]	1.01 [0.97, 1.05]	0.99 [0.96, 1.03]	1.03 [0.98, 1.08]	1.02 [0.98, 1.07]
Birth of Child	1.02 [0.96, 1.08]	1.08 [1.02, 1.14]	1.04 [0.96, 1.11]	0.94 [0.89, 1.00]	1.04 [0.97, 1.12]	0.85 [0.80, 0.91]	0.98 [0.93, 1.04]	1.04 [0.99, 1.10]	0.95 [0.90, 1.01]	0.99 [0.94, 1.04]
Death of Parent	0.99 [0.94, 1.04]	1.00 [0.96, 1.05]	0.99 [0.94, 1.05]	0.96 [0.91, 1.01]	1.03 [0.97, 1.09]	1.04 [0.98, 1.10]	0.99 [0.94, 1.03]	0.97 [0.93, 1.02]	1.00 [0.96, 1.05]	1.02 [0.97, 1.06]
Unemployment	1.01 [0.97, 1.06]	1.04 [0.99, 1.08]	0.99 [0.94, 1.05]	0.95 [0.90, 0.99]	0.94 [0.89, 0.99]	0.88 [0.83, 0.92]	0.93 [0.89, 0.97]	0.92 [0.88, 0.95]	1.08 [1.04, 1.13]	1.06 [1.02, 1.11]
Retirement	0.98 [0.92, 1.04]	0.91 [0.88, 0.94]	1.13 [1.06, 1.21]	1.11 [1.07, 1.16]	0.99 [0.92, 1.07]	1.11 [1.07, 1.16]	0.95 [0.90, 1.00]	0.91 [0.89, 0.94]	1.01 [0.96, 1.07]	0.95 [0.92, 0.97]
First Job	1.00 [0.90, 1.11]	1.07 [0.98, 1.17]	1.02 [0.90, 1.16]	0.94 [0.86, 1.04]	0.87 [0.77, 0.97]	0.53 [0.48, 0.58]	0.99 [0.90, 1.09]	1.06 [0.98, 1.15]	1.08 [0.97, 1.20]	1.28 [1.18, 1.39]

Note:

OR = odds ratios of Bayesian logistic regression predicting life events from personality in 2005.

HPDI = highest posterior density interval. Bolded values represent estimated odds ratios whose 95% HPDI's do not overlap with 0.

Table 3.3: Effects of Specific Events on the Mean-Level Change (Slope) of Personality Based on Multilevel Growth Models

	A			C			E			N			O		
	b	HPDI	d	b	HPDI	d	b	HPDI	d	b	HPDI	d	b	HPDI	d
Mean															
No Event	-0.06	[-0.07, -0.05]		-0.05	[-0.05, -0.04]		-0.00	[-0.01, 0.01]		0.09	[0.07, 0.10]		0.00	[-0.01, 0.01]	
Marriage															
Event	-0.06	[-0.09, -0.03]	-0.02	0.01	[-0.03, 0.04]	0.02	-0.05	[-0.08, -0.02]	-0.02	0.08	[0.04, 0.12]	-0.02	-0.04	[-0.07, -0.00]	-0.02
No Event	-0.04	[-0.06, -0.03]		-0.00	[-0.02, 0.01]		-0.03	[-0.05, -0.01]		0.09	[0.07, 0.11]		-0.02	[-0.04, -0.00]	
Moved in with Partner															
Event	-0.05	[-0.09, -0.02]	0.01	-0.01	[-0.04, 0.02]	-0.01	-0.06	[-0.10, -0.03]	-0.03	0.11	[0.07, 0.15]	0.04	-0.03	[-0.07, 0.01]	-0.01
No Event	-0.06	[-0.08, -0.05]		-0.00	[-0.02, 0.01]		-0.04	[-0.05, -0.02]		0.08	[0.06, 0.09]		-0.02	[-0.03, -0.00]	
Divorce															
Event	0.01	[-0.04, 0.06]	0.08	-0.02	[-0.07, 0.02]	-0.00	-0.01	[-0.06, 0.04]	0.02	0.13	[0.07, 0.19]	0.04	0.02	[-0.04, 0.07]	0.02
No Event	-0.04	[-0.06, -0.01]		-0.02	[-0.05, 0.00]		-0.02	[-0.05, 0.00]		0.09	[0.06, 0.13]		0.00	[-0.02, 0.03]	
Separation from Partner															
Event	0.01	[-0.02, 0.05]	0.08	0.01	[-0.02, 0.04]	0.02	-0.02	[-0.06, 0.01]	0.01	0.12	[0.08, 0.16]	0.03	-0.01	[-0.04, 0.03]	0.03
No Event	-0.04	[-0.05, -0.02]		-0.01	[-0.02, 0.01]		-0.03	[-0.05, -0.01]		0.10	[0.08, 0.12]		-0.03	[-0.05, -0.01]	
Death of spouse															
Event	-0.02	[-0.07, 0.03]	0.08	-0.09	[-0.14, -0.04]	-0.07	-0.01	[-0.06, 0.04]	0.02	0.11	[0.05, 0.17]	0.05	0.01	[-0.05, 0.07]	-0.01
No Event	-0.06	[-0.09, -0.04]		-0.06	[-0.08, -0.03]		-0.02	[-0.05, 0.00]		0.06	[0.03, 0.09]		0.02	[-0.01, 0.05]	
Leaving Parental Home															
Event	-0.01	[-0.06, 0.03]	0.04	0.06	[0.01, 0.11]	-0.05	-0.03	[-0.08, 0.03]	-0.04	0.10	[0.04, 0.16]	-0.02	-0.04	[-0.10, 0.02]	-0.01
No Event	-0.04	[-0.06, -0.01]		0.09	[0.06, 0.12]		0.01	[-0.02, 0.04]		0.11	[0.08, 0.15]		-0.03	[-0.06, 0.00]	
Child Leaves Home															
Event	-0.05	[-0.07, -0.02]	0.01	-0.07	[-0.09, -0.05]	-0.04	-0.05	[-0.07, -0.02]	-0.04	0.09	[0.06, 0.12]	-0.01	-0.00	[-0.03, 0.02]	-0.00
No Event	-0.05	[-0.06, -0.04]		-0.05	[-0.06, -0.03]		-0.02	[-0.03, -0.00]		0.10	[0.08, 0.11]		-0.00	[-0.02, 0.01]	
Birth of Child															
Event	-0.05	[-0.08, -0.02]	-0.00	-0.01	[-0.04, 0.02]	-0.02	-0.02	[-0.05, 0.01]	-0.01	0.06	[0.03, 0.10]	-0.03	0.00	[-0.03, 0.04]	0.01
No Event	-0.05	[-0.07, -0.03]		0.01	[-0.01, 0.02]		-0.01	[-0.03, 0.01]		0.09	[0.07, 0.11]		-0.01	[-0.02, 0.01]	
Death of Parent															
Event	-0.04	[-0.06, -0.01]	0.02	-0.05	[-0.07, -0.02]	-0.01	-0.02	[-0.05, 0.00]	0.00	0.12	[0.09, 0.15]	0.04	0.01	[-0.02, 0.04]	0.02
No Event	-0.05	[-0.06, -0.04]		-0.04	[-0.05, -0.03]		-0.02	[-0.04, -0.01]		0.09	[0.08, 0.10]		-0.01	[-0.02, 0.01]	
Unemployment															
Event	-0.04	[-0.06, -0.01]	0.04	-0.02	[-0.04, 0.00]	0.02	-0.03	[-0.05, -0.00]	-0.00	0.09	[0.06, 0.12]	-0.00	-0.03	[-0.06, -0.00]	-0.01
No Event	-0.06	[-0.07, -0.05]		-0.03	[-0.04, -0.01]		-0.02	[-0.04, -0.01]		0.09	[0.08, 0.11]		-0.02	[-0.04, -0.00]	
Retirement															
Event	-0.04	[-0.07, -0.01]	0.01	-0.09	[-0.11, -0.06]	-0.05	-0.01	[-0.04, 0.02]	0.03	0.08	[0.05, 0.12]	-0.02	-0.02	[-0.05, 0.01]	-0.03
No Event	-0.05	[-0.07, -0.03]		-0.06	[-0.07, -0.04]		-0.04	[-0.06, -0.02]		0.10	[0.08, 0.12]		0.00	[-0.02, 0.03]	
First Job															
Event	-0.04	[-0.09, 0.01]	0.00	0.12	[0.07, 0.17]	0.03	0.01	[-0.04, 0.07]	0.01	0.09	[0.03, 0.15]	-0.00	-0.03	[-0.09, 0.02]	0.01
No Event	-0.04	[-0.08, -0.01]		0.09	[0.06, 0.13]		0.01	[-0.03, 0.05]		0.09	[0.05, 0.14]		-0.05	[-0.09, -0.01]	

Note:

Cohen's d is calculated by dividing the difference in mean slope between groups by the standard deviation of the random intercepts of personality scores in 2005 of the control group. HPDI = highest posterior density interval. Bolded values represent estimated mean differences in change between groups whose 95% HPDI's do not overlap with 0.

Table 3.4: Effects of Specific Events on the Mean-Level Change (Slope) of Personality Based on Multilevel Growth Models

	A		C		E		N		O	
	b [HPDI]	d	b [HPDI]	d	b [HPDI]	d	b [HPDI]	d	b [HPDI]	d
Marriage	-0.02 [-0.06, 0.02]	-0.02	-0.01 [-0.05, 0.02]	-0.02	0.01 [-0.02, 0.04]	0.02	-0.01 [-0.06, 0.03]	-0.02	-0.01 [-0.05, 0.03]	-0.02
Moved in with Partner	-0.03 [-0.06, 0.01]	-0.03	0.01 [-0.03, 0.04]	0.01	-0.00 [-0.04, 0.03]	-0.01	0.03 [-0.01, 0.07]	0.04	-0.01 [-0.05, 0.03]	-0.01
Divorce	0.02 [-0.04, 0.07]	0.02	0.05 [-0.01, 0.10]	0.08	-0.00 [-0.05, 0.05]	-0.00	0.03 [-0.03, 0.10]	0.04	0.01 [-0.05, 0.07]	0.02
Separation from Partner	0.01 [-0.03, 0.04]	0.01	0.05 [0.01, 0.09]	0.08	0.01 [-0.02, 0.05]	0.02	0.03 [-0.02, 0.07]	0.03	0.03 [-0.01, 0.07]	0.03
Death of spouse	0.01 [-0.05, 0.07]	0.02	0.05 [-0.01, 0.10]	0.08	-0.04 [-0.09, 0.02]	-0.07	0.04 [-0.03, 0.11]	0.05	-0.01 [-0.08, 0.06]	-0.01
Leaving Parental Home	-0.03 [-0.10, 0.03]	-0.04	0.02 [-0.03, 0.08]	0.04	-0.03 [-0.09, 0.03]	-0.05	-0.01 [-0.08, 0.06]	-0.02	-0.01 [-0.08, 0.05]	-0.01
Child Leaves Home	-0.03 [-0.06, -0.00]	-0.04	0.01 [-0.02, 0.03]	0.01	-0.02 [-0.05, 0.00]	-0.04	-0.01 [-0.04, 0.03]	-0.01	-0.00 [-0.04, 0.03]	-0.00
Birth of Child	-0.01 [-0.05, 0.03]	-0.01	-0.00 [-0.03, 0.03]	-0.00	-0.02 [-0.05, 0.02]	-0.02	-0.02 [-0.07, 0.02]	-0.03	0.01 [-0.03, 0.05]	0.01
Death of Parent	0.00 [-0.02, 0.03]	0.00	0.01 [-0.02, 0.04]	0.02	-0.01 [-0.03, 0.02]	-0.01	0.03 [-0.01, 0.06]	0.04	0.02 [-0.01, 0.05]	0.02
Unemployment	-0.00 [-0.03, 0.03]	-0.00	0.02 [-0.00, 0.05]	0.04	0.01 [-0.01, 0.04]	0.02	-0.00 [-0.03, 0.03]	-0.00	-0.01 [-0.04, 0.02]	-0.01
Retirement	0.03 [-0.01, 0.06]	0.03	0.01 [-0.03, 0.04]	0.01	-0.03 [-0.06, 0.00]	-0.05	-0.02 [-0.06, 0.03]	-0.02	-0.02 [-0.06, 0.02]	-0.03
First Job	0.00 [-0.06, 0.07]	0.01	0.00 [-0.06, 0.06]	0.00	0.02 [-0.04, 0.08]	0.03	-0.00 [-0.08, 0.08]	-0.00	0.01 [-0.06, 0.08]	0.01

Note:

Cohen's d is calculated by dividing the difference in mean personality between groups in 2005 by the standard deviation of the random intercepts of personality scores in 2005 of the control group. HPDI = highest posterior density interval. Bolded values represent estimated mean differences between groups whose 95% HPDI's do not overlap with 0.

Table 3.2: Effects of Specific Events on the Mean-Level (Intercept) of Personality Based on Multilevel Growth Models

	A			C			E			N			O		
	b	HPDI	d	b	HPDI	d	b	HPDI	d	b	HPDI	d	b	HPDI	d
Mean															
No Event	5.78	[5.76, 5.79]		6.26	[6.24, 6.27]		5.15	[5.13, 5.17]		4.72	[4.70, 4.74]		4.48	[4.46, 4.50]	
Marriage															
Event	5.67	[5.61, 5.73]	-0.04	6.12	[6.07, 6.18]	-0.00	5.31	[5.24, 5.38]	0.08	4.74	[4.67, 4.82]	-0.05	4.62	[4.54, 4.69]	0.02
No Event	5.70	[5.67, 5.73]		6.13	[6.10, 6.16]		5.24	[5.21, 5.28]		4.79	[4.75, 4.83]		4.60	[4.57, 4.64]	
Moved in with Partner															
Event	5.74	[5.68, 5.80]	0.02	6.08	[6.02, 6.14]	-0.15	5.39	[5.31, 5.46]	0.13	4.74	[4.67, 4.82]	-0.06	4.66	[4.58, 4.73]	0.09
No Event	5.73	[5.70, 5.76]		6.16	[6.14, 6.19]		5.28	[5.24, 5.31]		4.79	[4.75, 4.83]		4.58	[4.55, 4.62]	
Divorce															
Event	5.71	[5.61, 5.81]	0.01	6.29	[6.21, 6.38]	0.05	5.29	[5.18, 5.40]	0.03	4.53	[4.41, 4.66]	-0.06	4.57	[4.46, 4.69]	0.01
No Event	5.70	[5.65, 5.75]		6.26	[6.22, 6.31]		5.27	[5.22, 5.32]		4.58	[4.52, 4.64]		4.56	[4.51, 4.62]	
Separation from Partner															
Event	5.64	[5.58, 5.70]	-0.03	6.14	[6.09, 6.20]	-0.04	5.32	[5.25, 5.39]	0.05	4.64	[4.57, 4.72]	-0.04	4.64	[4.57, 4.71]	0.03
No Event	5.66	[5.63, 5.69]		6.17	[6.14, 6.19]		5.28	[5.24, 5.31]		4.68	[4.64, 4.71]		4.62	[4.58, 4.65]	
Death of spouse															
Event	5.93	[5.84, 6.03]	0.03	6.35	[6.26, 6.44]	0.03	5.07	[4.96, 5.17]	-0.01	4.56	[4.45, 4.68]	-0.06	4.22	[4.10, 4.34]	-0.10
No Event	5.92	[5.87, 5.97]		6.33	[6.29, 6.37]		5.08	[5.02, 5.13]		4.61	[4.55, 4.67]		4.30	[4.24, 4.36]	
Leaving Parental Home															
Event	5.67	[5.58, 5.76]	-0.01	5.78	[5.68, 5.88]	-0.08	5.25	[5.14, 5.36]	-0.00	4.66	[4.54, 4.77]	-0.13	4.64	[4.52, 4.75]	0.00
No Event	5.68	[5.62, 5.73]		5.84	[5.78, 5.89]		5.25	[5.19, 5.31]		4.76	[4.69, 4.82]		4.64	[4.57, 4.70]	
Child Leaves Home															
Event	5.79	[5.75, 5.83]	0.02	6.36	[6.32, 6.40]	0.06	5.19	[5.15, 5.24]	0.03	4.69	[4.63, 4.74]	0.01	4.50	[4.45, 4.55]	0.02
No Event	5.78	[5.75, 5.80]		6.33	[6.31, 6.35]		5.17	[5.14, 5.20]		4.68	[4.65, 4.71]		4.48	[4.46, 4.51]	
Birth of Child															
Event	5.72	[5.66, 5.77]	0.03	6.14	[6.08, 6.19]	0.00	5.23	[5.16, 5.29]	0.03	4.77	[4.70, 4.84]	-0.02	4.48	[4.41, 4.54]	-0.04
No Event	5.70	[5.67, 5.73]		6.14	[6.11, 6.17]		5.20	[5.16, 5.24]		4.78	[4.74, 4.82]		4.51	[4.47, 4.54]	
Death of Parent															
Event	5.73	[5.69, 5.78]	-0.03	6.29	[6.24, 6.33]	0.01	5.14	[5.09, 5.19]	-0.03	4.68	[4.62, 4.73]	-0.02	4.50	[4.44, 4.55]	-0.00
No Event	5.75	[5.74, 5.77]		6.28	[6.26, 6.30]		5.16	[5.13, 5.18]		4.69	[4.67, 4.72]		4.50	[4.48, 4.52]	
Unemployment															
Event	5.72	[5.68, 5.77]	-0.02	6.18	[6.14, 6.22]	-0.11	5.19	[5.14, 5.24]	0.00	4.62	[4.57, 4.67]	-0.07	4.54	[4.49, 4.59]	0.02
No Event	5.73	[5.71, 5.76]		6.24	[6.22, 6.26]		5.19	[5.16, 5.22]		4.68	[4.65, 4.71]		4.53	[4.50, 4.56]	
Retirement															
Event	5.86	[5.80, 5.91]	0.14	6.34	[6.29, 6.39]	-0.02	5.03	[4.97, 5.09]	-0.09	4.58	[4.51, 4.65]	-0.13	4.43	[4.36, 4.50]	-0.05
No Event	5.77	[5.73, 5.80]		6.35	[6.32, 6.39]		5.10	[5.06, 5.14]		4.69	[4.64, 4.73]		4.47	[4.43, 4.52]	
First Job															
Event	5.72	[5.62, 5.81]	0.09	5.70	[5.59, 5.80]	-0.10	5.25	[5.14, 5.37]	0.02	4.81	[4.69, 4.93]	0.05	4.79	[4.68, 4.91]	0.07
No Event	5.67	[5.60, 5.73]		5.76	[5.69, 5.84]		5.24	[5.16, 5.32]		4.77	[4.69, 4.85]		4.74	[4.66, 4.82]	

Note:

Cohen's d is calculated by dividing the difference in mean personality between groups in 2005 by the standard deviation of the random intercepts of personality scores in 2005 of the control group. HPDI = highest posterior density interval. Bolded values represent estimated mean differences between groups whose 95% HPDI's do not overlap with 0.

Table 3.5: Effects of Specific Events on the Mean-Level Personality Based on Multilevel Growth Models

A		C		E		N		O	
b [HPDI]	d	b [HPDI]	d	b [HPDI]	d	b [HPDI]	d	b [HPDI]	d
Marriage									
0.06 [-0.01, 0.14]	0.08	-0.02 [-0.09, 0.04]	-0.04	-0.00 [-0.07, 0.06]	-0.00	-0.04 [-0.13, 0.04]	-0.05	0.01 [-0.07, 0.10]	0.02
Moved in with Partner									
0.11 [0.03, 0.19]	0.13	0.01 [-0.05, 0.08]	0.02	-0.09 [-0.15, -0.02]	-0.15	-0.05 [-0.13, 0.04]	-0.06	0.07 [-0.01, 0.16]	0.09
Divorce									
0.02 [-0.10, 0.14]	0.03	0.01 [-0.10, 0.11]	0.01	0.03 [-0.07, 0.13]	0.05	-0.05 [-0.19, 0.09]	-0.06	0.01 [-0.12, 0.14]	0.01
Separation from Partner									
0.04 [-0.04, 0.12]	0.05	-0.02 [-0.08, 0.05]	-0.03	-0.02 [-0.09, 0.04]	-0.04	-0.03 [-0.12, 0.05]	-0.04	0.02 [-0.06, 0.10]	0.03
Death of spouse									
-0.01 [-0.13, 0.11]	-0.01	0.02 [-0.09, 0.12]	0.03	0.02 [-0.08, 0.12]	0.03	-0.05 [-0.18, 0.08]	-0.06	-0.08 [-0.22, 0.05]	-0.10
Leaving Parental Home									
-0.00 [-0.13, 0.13]	-0.00	-0.00 [-0.11, 0.10]	-0.01	-0.05 [-0.17, 0.06]	-0.08	-0.10 [-0.23, 0.04]	-0.13	0.00 [-0.13, 0.14]	0.00
Child Leaves Home									
0.03 [-0.03, 0.08]	0.03	0.01 [-0.04, 0.06]	0.02	0.03 [-0.01, 0.08]	0.06	0.01 [-0.06, 0.07]	0.01	0.02 [-0.04, 0.08]	0.02
Birth of Child									
0.03 [-0.05, 0.10]	0.03	0.02 [-0.05, 0.08]	0.03	0.00 [-0.06, 0.06]	0.00	-0.02 [-0.09, 0.06]	-0.02	-0.03 [-0.11, 0.04]	-0.04
Death of Parent									
-0.02 [-0.08, 0.04]	-0.03	-0.02 [-0.07, 0.03]	-0.03	0.01 [-0.04, 0.05]	0.01	-0.01 [-0.07, 0.05]	-0.02	-0.00 [-0.06, 0.06]	-0.00
Unemployment									
0.00 [-0.06, 0.06]	0.00	-0.01 [-0.06, 0.04]	-0.02	-0.06 [-0.11, -0.02]	-0.11	-0.05 [-0.11, 0.01]	-0.07	0.02 [-0.04, 0.07]	0.02
Retirement									
-0.07 [-0.15, 0.00]	-0.09	0.09 [0.03, 0.16]	0.14	-0.01 [-0.07, 0.05]	-0.02	-0.11 [-0.19, -0.02]	-0.13	-0.04 [-0.12, 0.04]	-0.05
First Job									
0.02 [-0.12, 0.15]	0.02	0.05 [-0.06, 0.17]	0.09	-0.07 [-0.19, 0.05]	-0.10	0.04 [-0.10, 0.19]	0.05	0.05 [-0.08, 0.19]	0.07

Note:

Cohen's d is calculated by dividing the difference in mean personality change between groups in 2005 by the standard deviation of the random intercepts of personality scores in 2005 of the control group. HPDI = highest posterior density interval. Bolded values represent estimated mean differences between groups whose 95% HPDI's do not overlap with 0.

Results

Selection

E A C N O

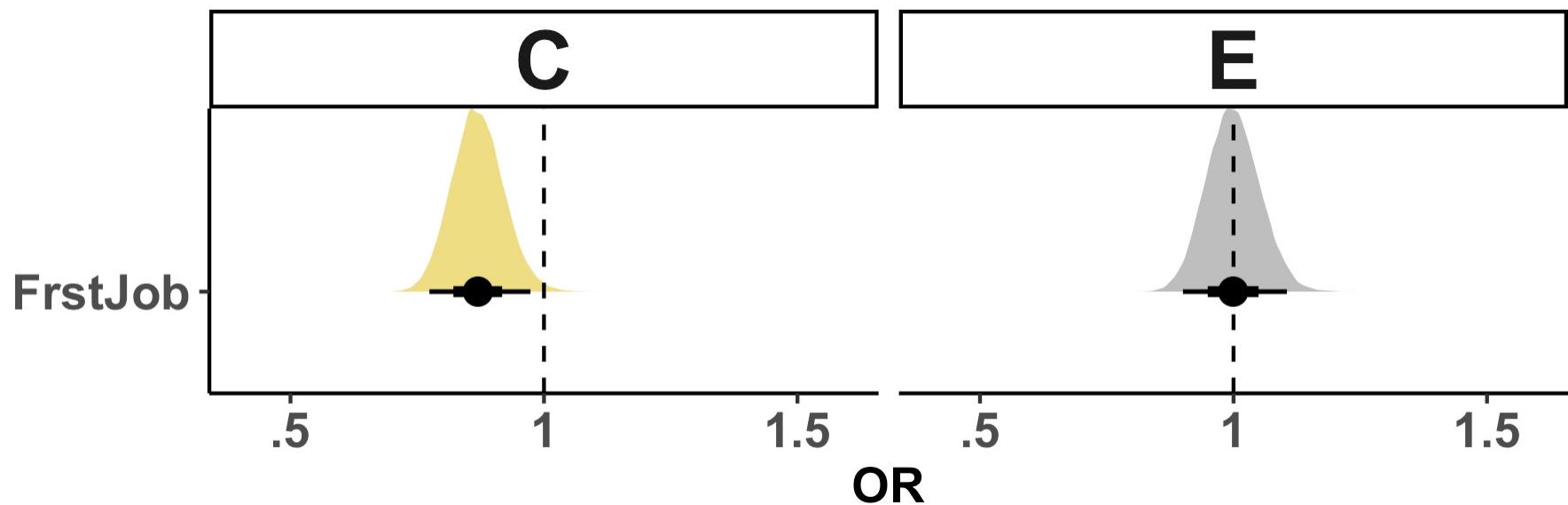


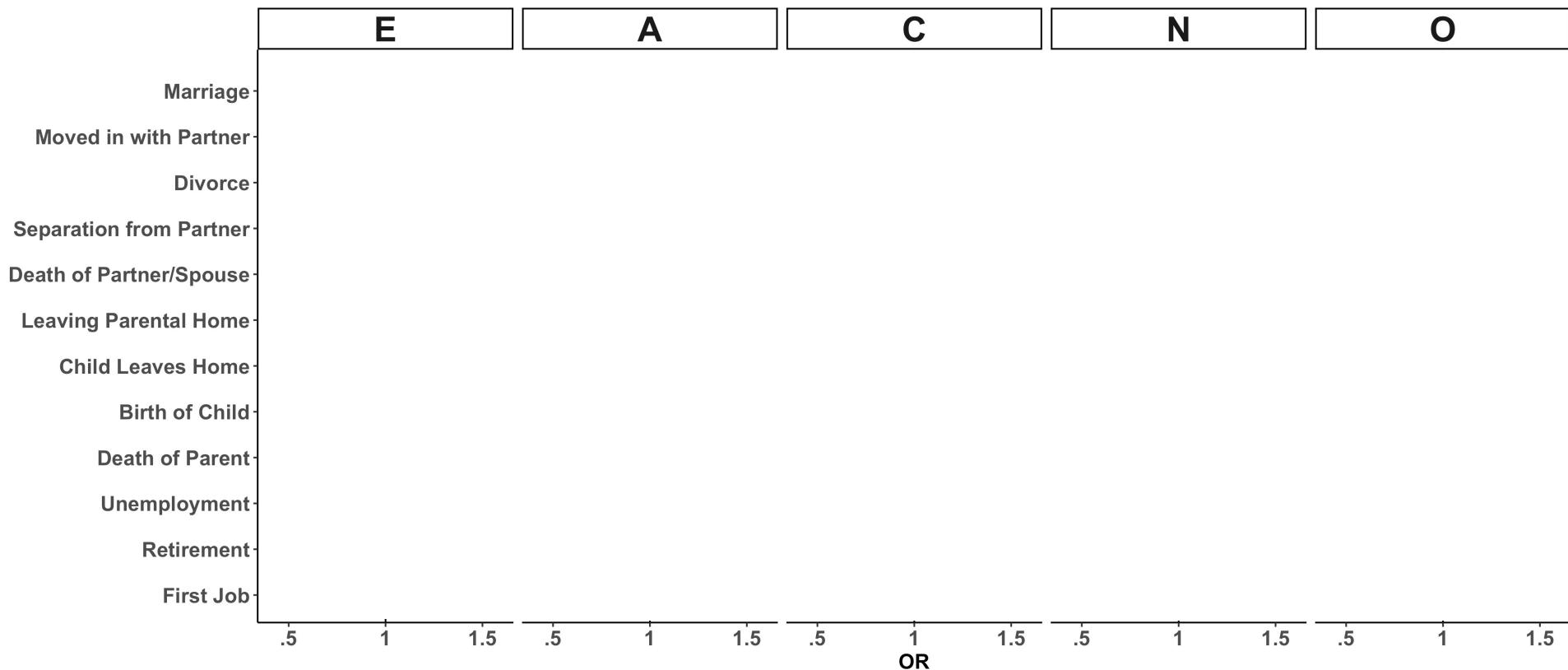
Life Events

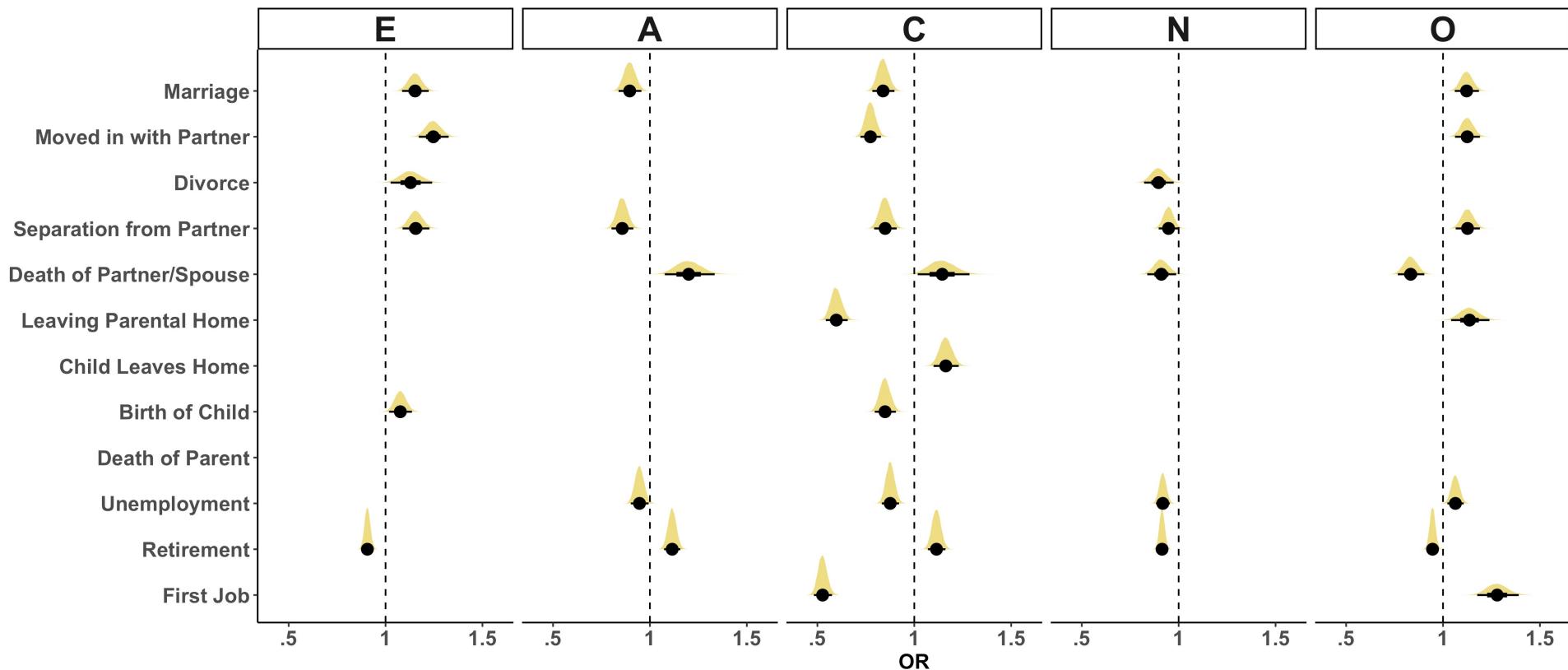
Selection

Socialization

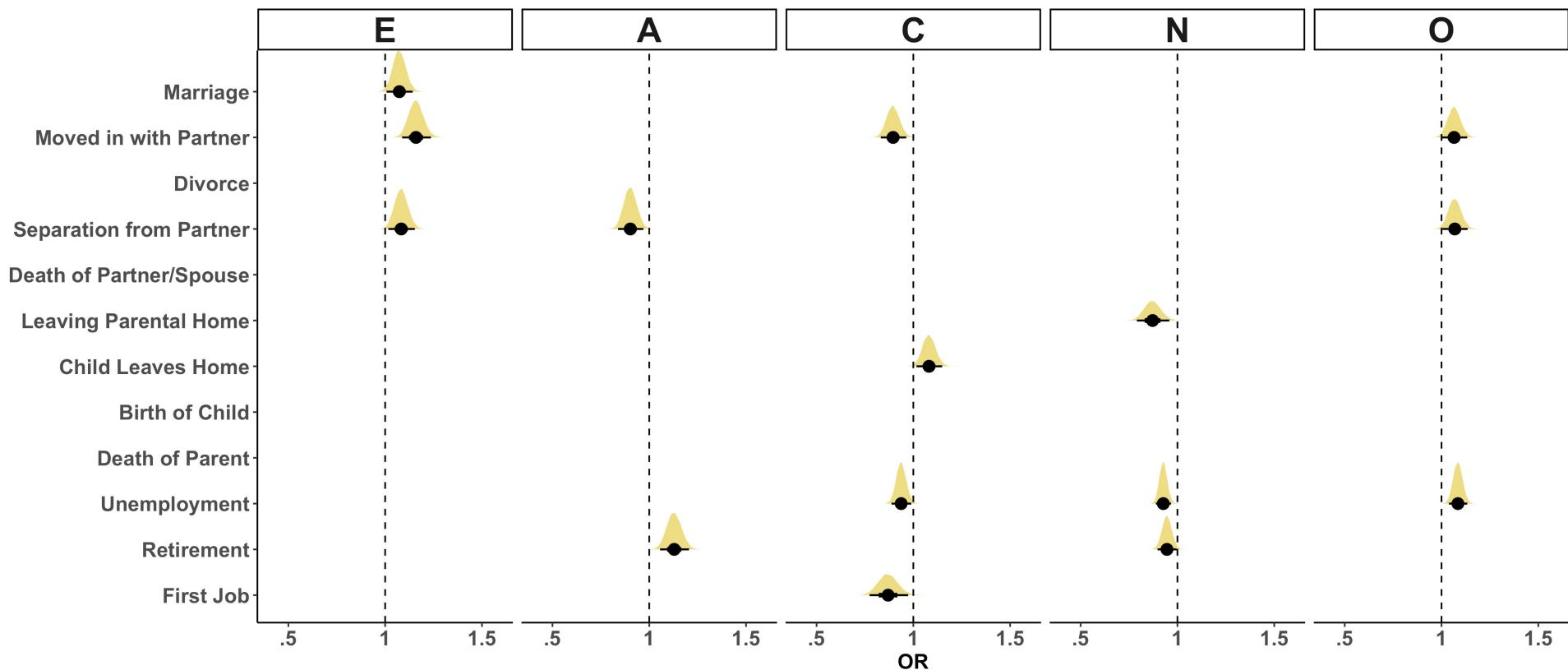
Individual Differences



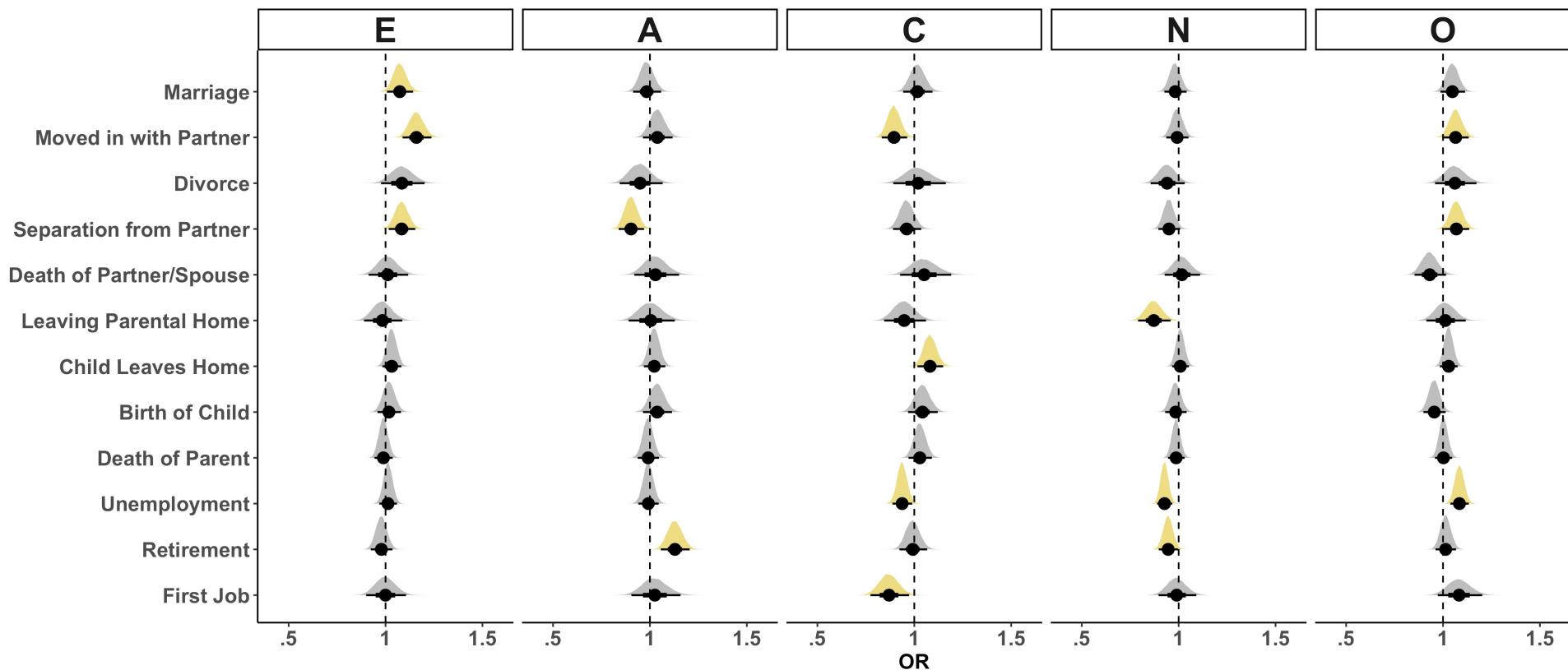
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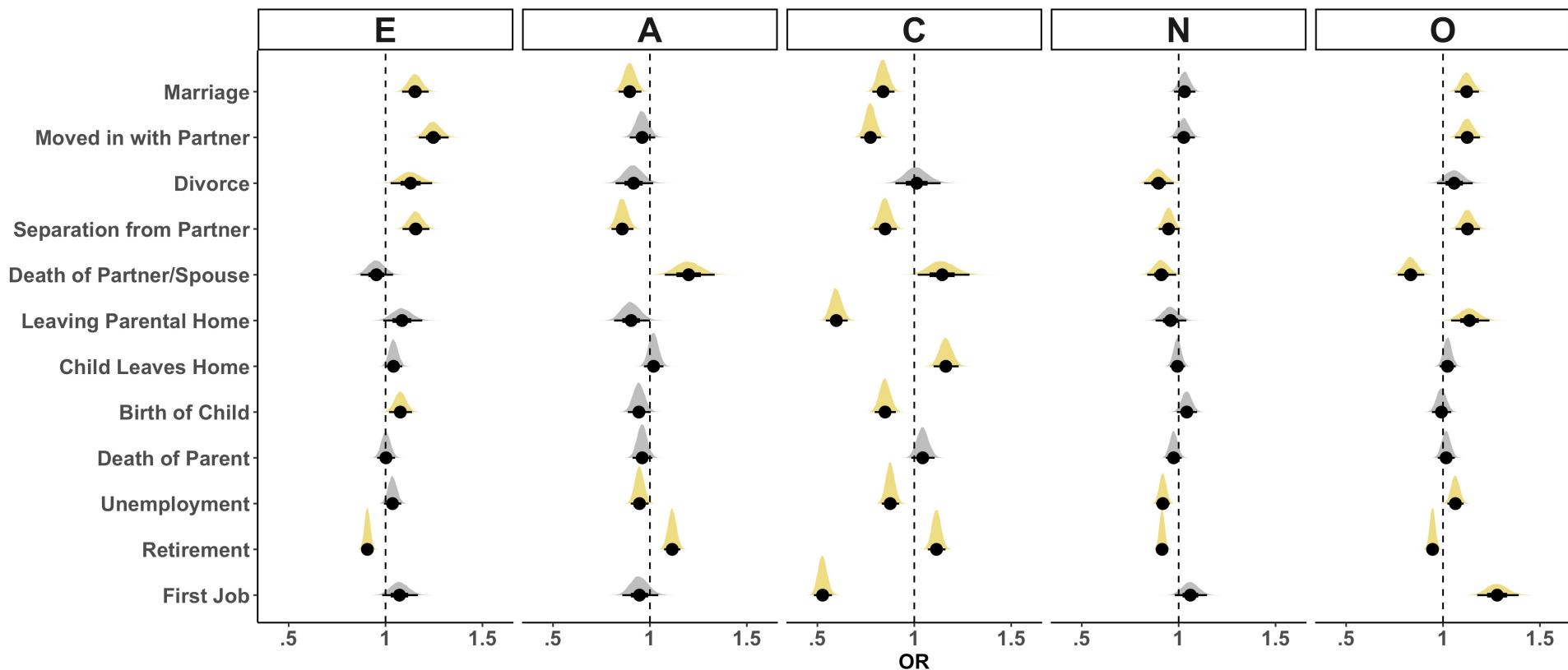
Unmatched

Matched



Matched



Unmatched

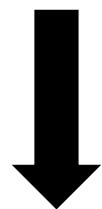
Selection

E | A | C | N | O



Socialization

E | A | C | N | O



Life Events



Life Events

Selection

E | A | C | N | O



Life Events

Mechanisms

Over-Controlling

Selection

E | A | C | N | O

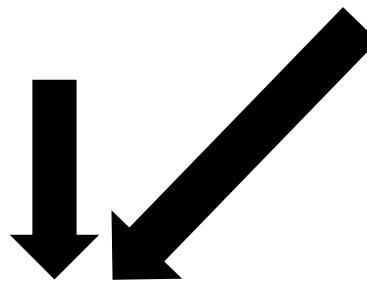


Background
Characteristics

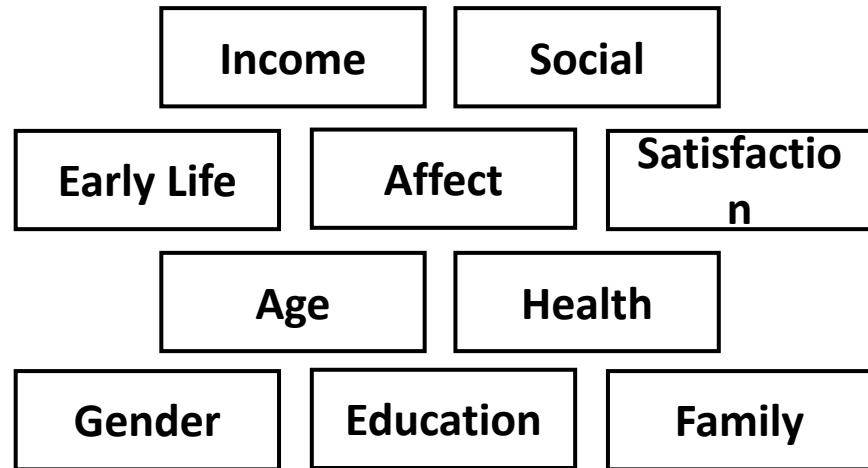
Life Events

Selection

E | A | C | N | O



Life Events



Background
Characteristics

Selection

Socialization

Individual Differences

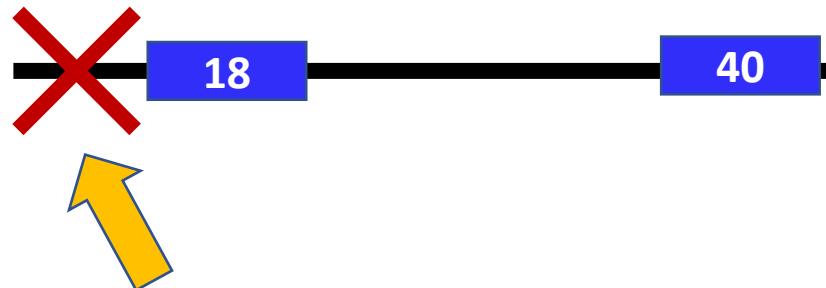
Selection

Conscientiousness



Work Experiences

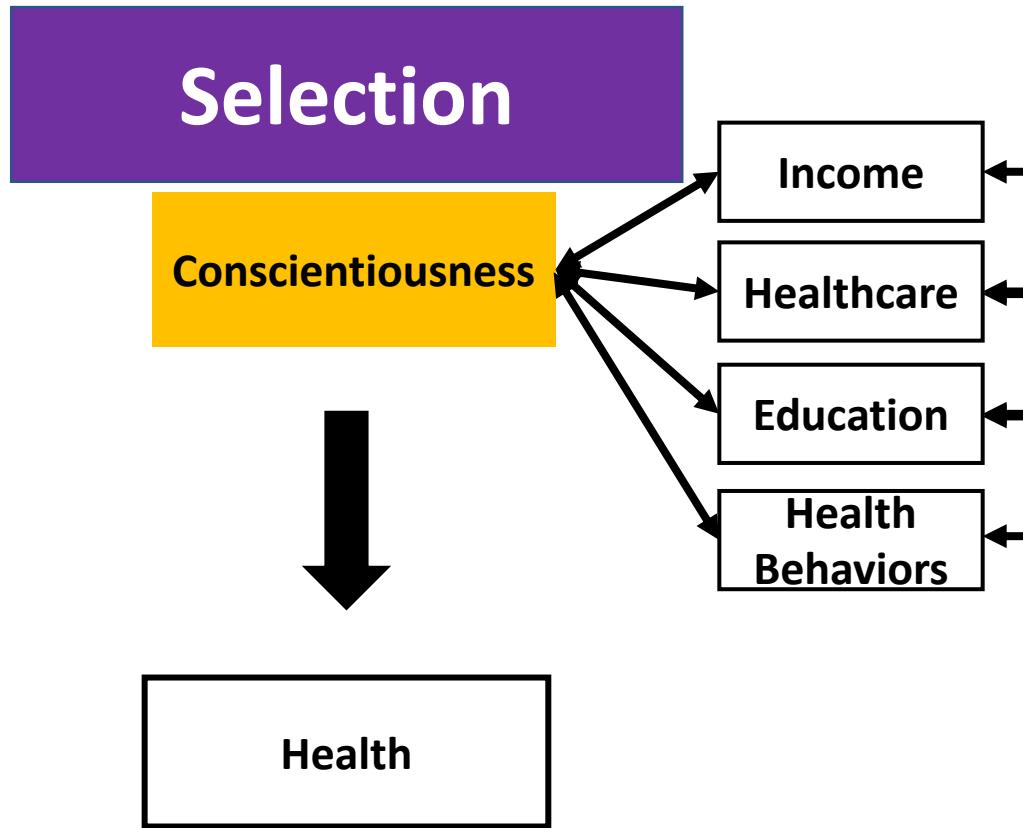
Barrick, Mount, & Judge, 2001



Selection

Socialization

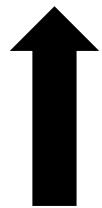
Individual Differences



Hampson, Goldberg, Vogt, &
Dubanoski, 2007

Socialization

E | A | C | N | O

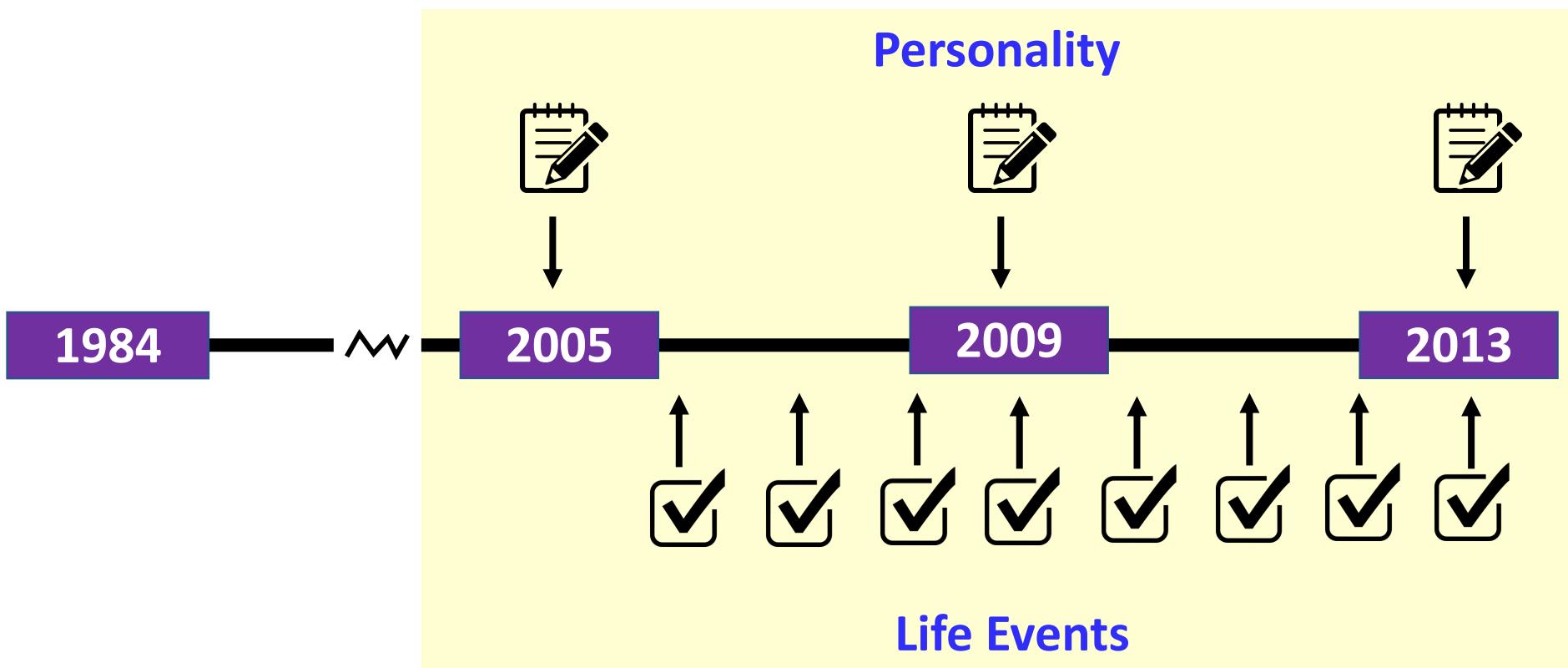


Life Events

Non-Linearity

Event Time

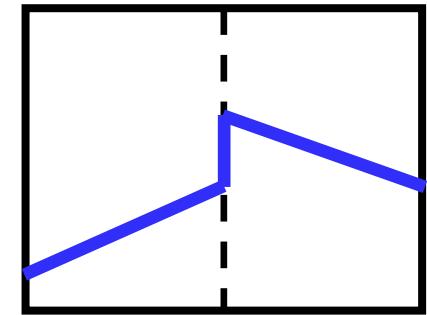
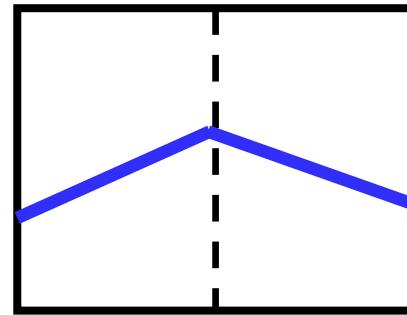
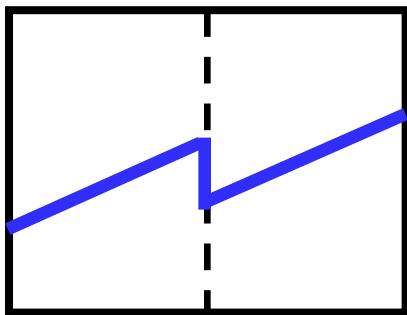
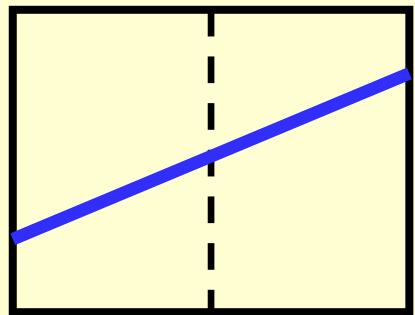
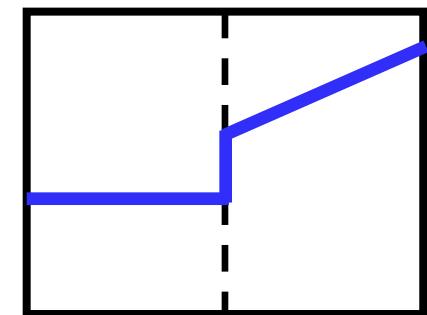
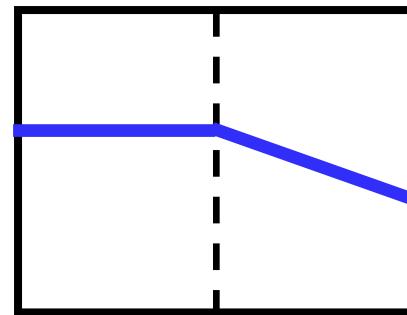
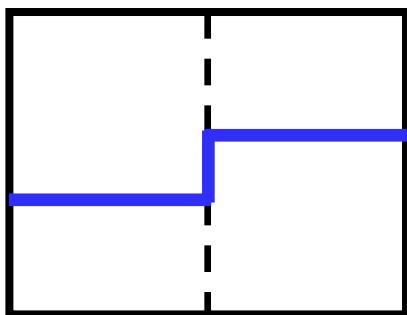
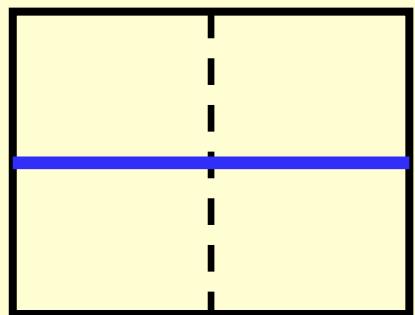
Individual Differences
in Change



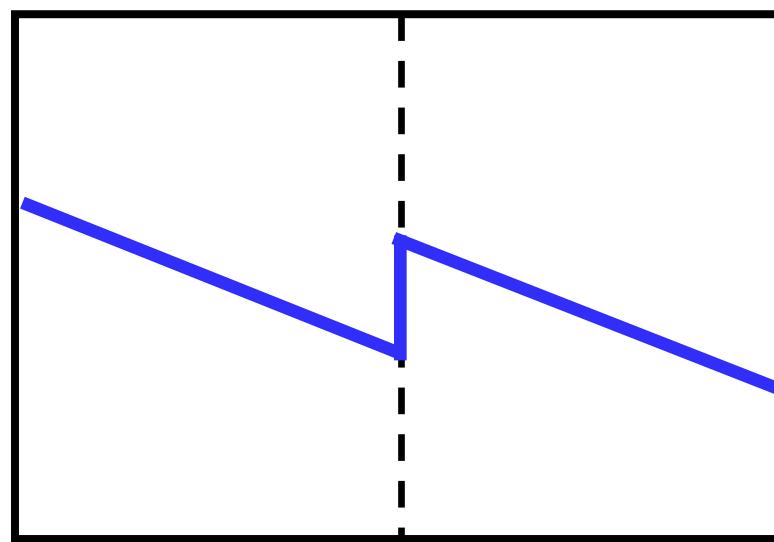
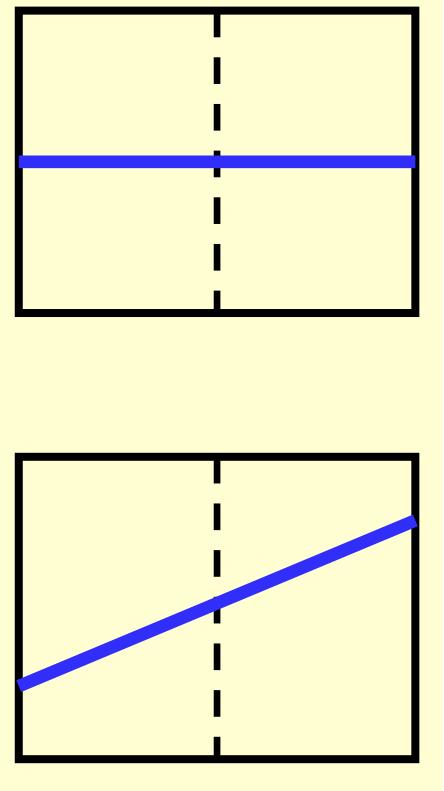
Selection

Socialization

Individual Differences



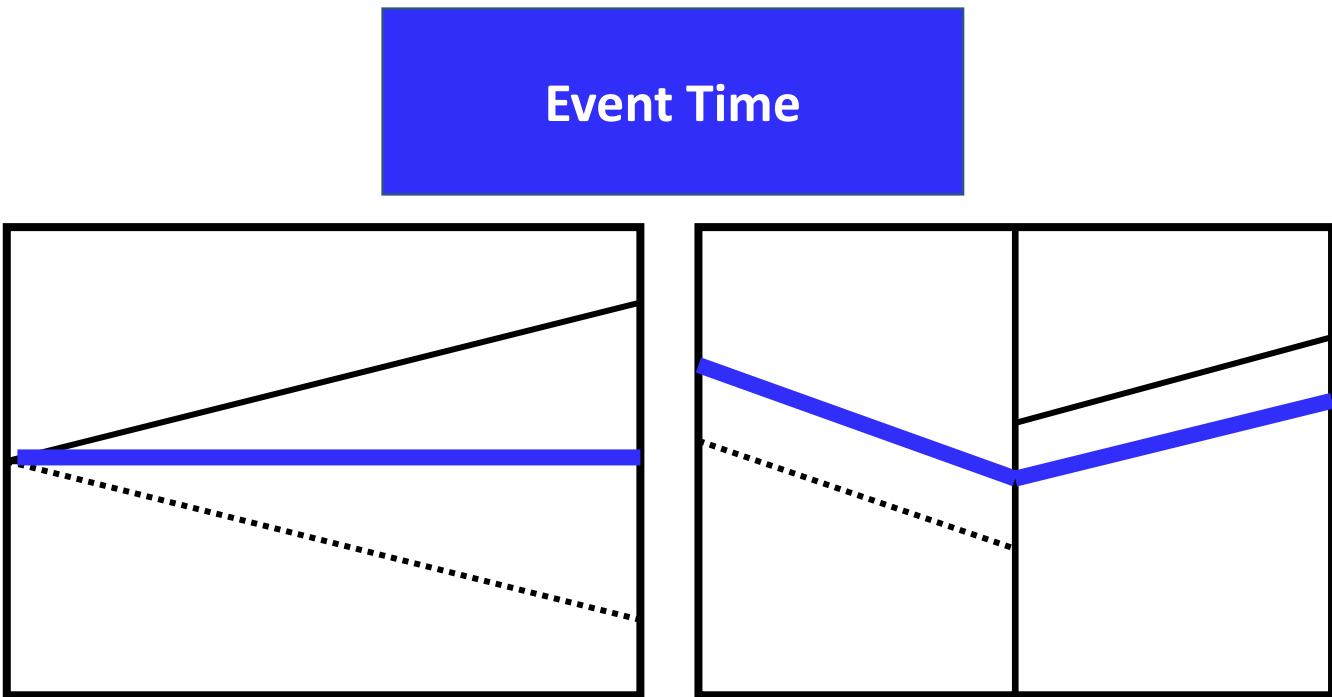
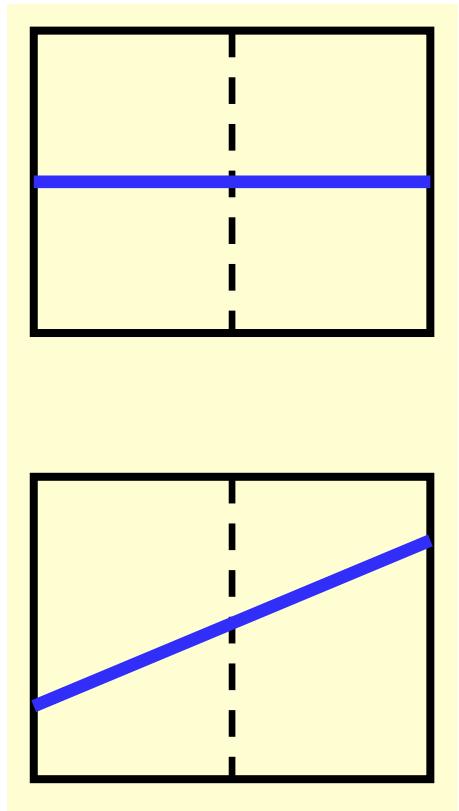
Schwaba & Bleidorn, 2017; Doss et al., 2009 ; Bleidorn et al., 2016



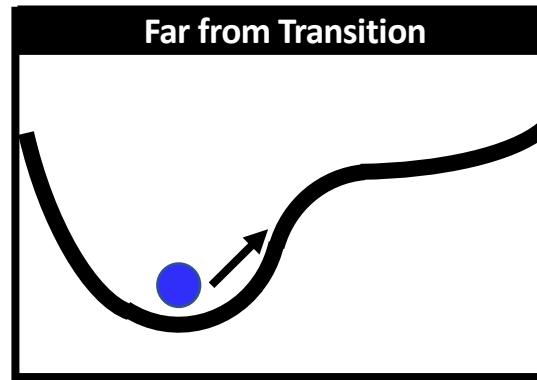
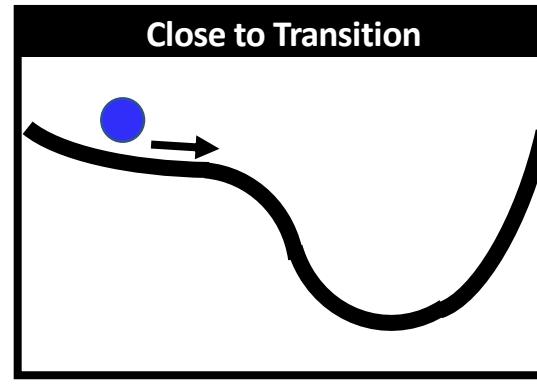
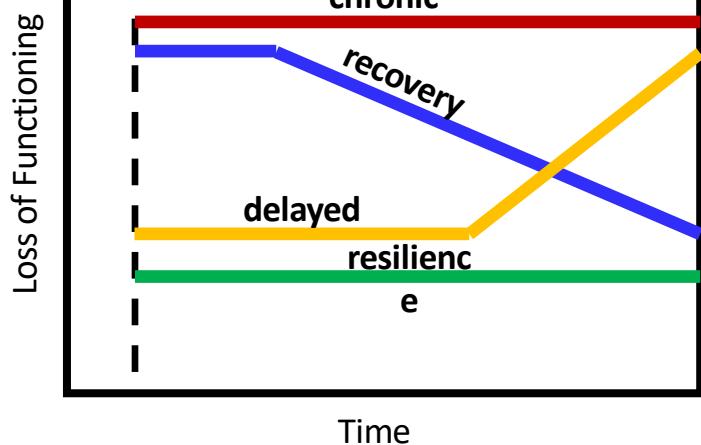
Openness, Agreeableness

Retirement

Schwaba & Bleidorn, 2017; Doss et al., 2009 ; Bleidorn et al., 2016



“Tipping Points”



Bonanno, 2004; van Leemput et al., 2014; Cramer et al., 2016; Cabrieto et al., 2018

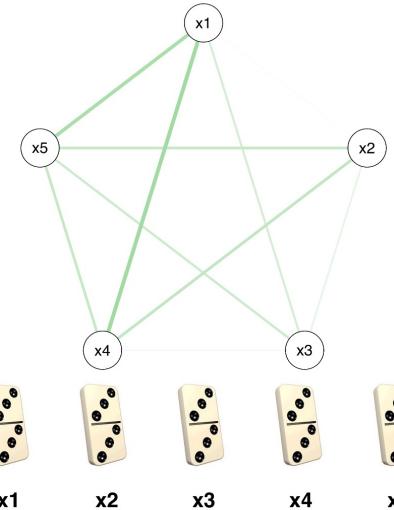
“Tipping Points”

INVULNERABLE NETWORK

Weak connections

~

Large distances between tiles

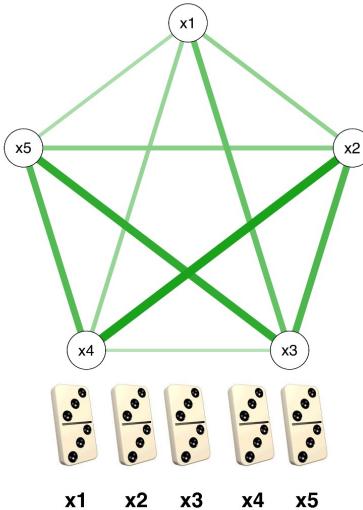


VULNERABLE NETWORK

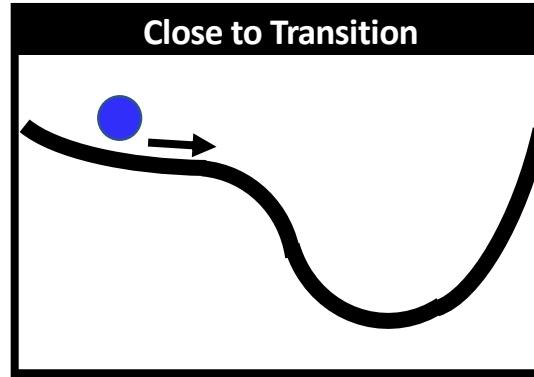
Strong connections

~

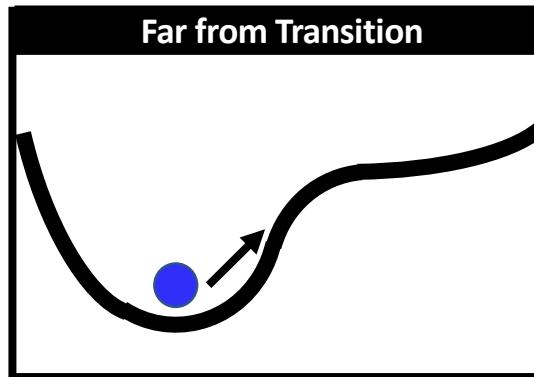
Small distances between tiles



Close to Transition



Far from Transition



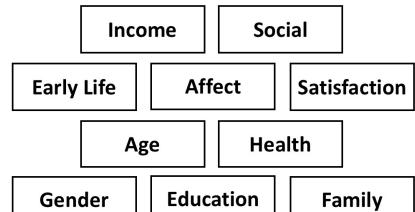
Bonanno, 2004; van Leemput et al., 2014; Cramer et al., 2016; Cabrieto et al., 2018

Selection



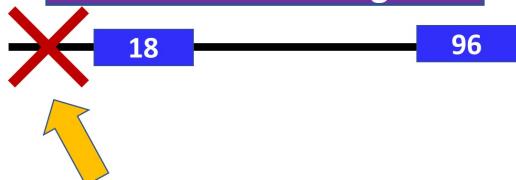
Socialization

Mechanisms

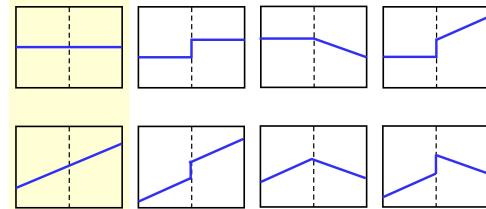


Background
Characteristics

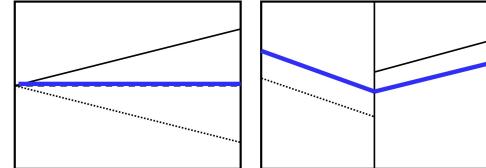
Over-Controlling



Non-linearity



Event Timing



Identifying Tipping Points

