Supplement to: On the Robustness of Reciprocal Associations Between Personality and Religiosity in a German Sample

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State Specific Estimates and Convergence Problems

These tables report the lagged associations from all models separately for each state. In addition, the tables report whether any estimation problems emerged (some of which prevented estimates from being calculated).

Traits Predicting Religion

Estimates (with 95% confidence intervals) and convergence and estimation problems in the CLPM with latent traits and all traits modeled simultaneously

	1	Agreeableness	CC	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.13 (0.05, 0.21)	No	-0.08 (-0.17, 0.02)	No	0.11 (0.02, 0.20)	No	0.10 (0.03, 0.17)	No	-0.09 (-0.19, 0.01)
Hamburg	Yes	0.06 (-0.04, 0.16)	Yes	.0.06, 0	Yes	0.05 (-0.09, 0.19)	Yes	(-0.04, C	Yes	\sim
Lower Saxony	No	0.03 (-0.00, 0.07)	No	_	οN	-0.03 (-0.08, 0.01)	No	(-0.02, (No	0.02 (-0.03, 0.07)
Bremen	Yes	NA	Yes	NA	Yes	NA	Yes	NA	Yes	
North Rhine-Westphalia	No	0.05 (0.03, 0.08)	S	\sim	o N	0.03 (-0.00, 0.05)	No	(-0.00, 0	No	-0.05 (-0.08, -0.02)
Hesse	No	0.04 (-0.00, 0.09)	No	-0.01 (-0.07, 0.04)	No	0.03 (-0.02, 0.08)	No	0.02 (-0.01, 0.05)	No	-0.05 (-0.11, -0.00)
Rhineland-Palatinate	No	0.06(0.01, 0.12)	No	-0.00 (-0.06, 0.06)	οN	-0.04 (-0.10, 0.02)	No	(-0.03,	No	0.01 (-0.05, 0.07)
Baden-Wuerttemberg	No	0.04 (0.01, 0.08)	S	0.01 (-0.02, 0.04)	ο N	0.01 (-0.03, 0.04)	No	(-0.03)	No	-0.08,
Bavaria	No	0.05 (0.02, 0.07)	No	0.01 (-0.02, 0.04)	No	0	No	-0.00 (-0.02, 0.02)	No	-0.03 (-0.06, -0.00)
Saarland	Yes		Yes		Yes	NA	Yes		Yes	NA
Berlin	No	0.02 (-0.04, 0.08)	No	-0.03 (-0.10, 0.03)	οN		No	_	No	$\overline{}$
Brandenburg	No	_	No	-0.05 (-0.12, 0.01)	οN	0.05 (-0.02, 0.12)	No	(-0.02, (No	-0.03 (-0.09, 0.04)
Mecklenburg-Western Pomerania	No	0.11 (0.01, 0.22)	$^{\circ}_{ m N}$	-0.05 (-0.15, 0.05)	ο N		No	(-0.04, (No	\sim
Saxony	No	0.04 (0.01, 0.07)	No	-0.04 (-0.07, -0.00)	No	(-0.04,	No	(-0.03, (No	0.02 (-0.02, 0.06)
Saxony-Anhalt	No	0.02 (-0.03, 0.06)	S	-0.01 (-0.05, 0.03)	o N	-0.04 (-0.09, 0.01)	No	$\overline{}$	No	0.05 (-0.01, 0.11)
Thuringia	No	0.01 (-0.04, 0.06)	S	0.01 (-0.04, 0.05)	No	-0.07 (-0.13, -0.01)	No	$\overline{}$	No	0.06 (-0.01, 0.13)

Estimates (with 95% confidence intervals) and convergence and estimation problems in the RI-CLPM with latent traits and

-0.38 (-0.74, -0.02) 0.26 (-1.50, 2.02) 0.00 (-0.18, 0.18) 1.71 (NA, NA) -0.05 (-0.18, 0.08) 0.27 (-1.76, 1.22) 0.31 (0.15, 0.48) 0.07 (-0.08, 0.23) 0.05 (-0.13, 0.22) 0.09 (-0.39, 0.22) 0.09 (-0.39, 0.22) 0.09 (-0.39, 0.23) 0.09 (-0.39, 0.23) 0.01 (-0.22, 0.24) 0.01 (-0.22, 0.24) 0.01 (-0.22, 0.24) 0.01 (-0.22, 0.24) 0.01 (-0.22, 0.24) 0.01 (-0.22, 0.24) Prob. 0.24 (0.09, 0.40) 0.17 (-0.47, 0.81) 0.06 (-0.06, 0.19) 0.011 (NA, NA) 0.09 (0.01, 0.17) 0.17 (-0.38, 0.72) 0.07 (-0.17, 0.08) 0.05 (-0.17, 0.08) 0.05 (-0.17, 0.08) 0.01 (-0.09, 0.31) 0.01 (-0.20, 0.03) 0.01 (-0.23, 0.24) 0.07 (-0.10, 0.03) 0.07 (-0.10, 0.03) 0.07 (-0.10, 0.03) 0.07 (-0.10, 0.03) Estimate Neuroticism Prob. 0.53 (-0.01, 1.07) 0.06 (-0.134, 1.46) -0.04 (-0.21, 0.13) NA (NA, NA) 0.05 (-0.07, 0.18) 0.20 (-1.25, 1.64) -0.26 (-0.44, -0.08) -0.99 (-0.26, 0.08) -0.19 (-0.28, 0.03) 0.11 (-0.88, 0.06) 0.28 (-0.18, 0.75) 0.01 (-0.24, 0.25) -0.29 (-0.85, 0.25) -0.29 (-0.85, 0.25) -0.29 (-0.85, 0.25) -0.29 (-0.85, 0.26) Estimate Prob. -0.23 (-0.43, -0.03) -0.02 (-0.57, 0.18) -0.02 (-0.22, 0.18) -0.14 (-0.26, -0.01) -0.01 (-0.91, 0.88) -0.06 (-0.14, 0.27) -0.05 (-0.09, 0.18) -0.17 (-0.26, 0.07) -0.18 (-0.26, 0.07) -0.18 (-0.26, 0.23) -0.18 (-0.24, 0.24) -0.17 (-0.34, 0.20) -0.14 (-0.45, 0.17) Estimate Conscientiousness Prob. 0.02 (-0.22, 0.26)
-0.21 (-0.66, 0.25)
0.03 (-0.17, 0.23)
0.03 (-0.17, 0.24)
0.01 (-0.02, 0.24)
0.03 (-0.18, 0.29)
0.03 (-0.18, 0.29)
0.03 (-0.18, 0.29)
0.01 (-0.17, 0.16)
0.12 (-0.07, 0.30)
0.12 (-0.07, 0.30)
0.12 (-0.07, 0.30)
0.17 (-0.08, 0.42)
0.07 (-0.06, 0.45)
0.09 (-0.05, 0.23)
0.09 (-0.05, 0.23)
0.09 (-0.02, 0.23) Estimate traits modeled simultaneously Prob. Lower Saxony
Bremen
n Rhine-Westphalia
Hesse Schleswig-Holstein Hamburg all

Rhineland-Palatinate
Baden-Wuerttemberg
Bavaria
Saarland
Berlin

Saxony Saxony-Anhalt Thuringia

 ${\bf Brandenburg}$ Mecklenburg-Western Pomerania

Estimates (with 95% confidence intervals) and convergence and estimation problems in the CLPM with observed measures

	7	Agreeableness	ర	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.10 (0.05, 0.14)	No	-0.00 (-0.06, 0.05)	No	0.04 (-0.01, 0.09)	No	0.09 (0.04, 0.15)	No	-0.00 (-0.05, 0.05)
Hamburg	No	0.02 (-0.04, 0.07)	No	0.02 (-0.03, 0.08)	No	$0.01 \ (-0.05, \ 0.07)$	No	0.03 (-0.02, 0.07)	No	-0.03 (-0.09, 0.03)
Lower Saxony	No	0.02 (-0.01, 0.04)	No	(-0.01, (οN	-0.03 (-0.05, -0.00)	No	$0.01 \ (-0.01, 0.04)$	No	0.03 (0.00, 0.05)
Bremen	ν	-0.00 (-0.10, 0.10)	No		οN	-0.03 (-0.14, 0.08)	No	-0.01 (-0.10, 0.08)	No	0.09 (-0.01, 0.19)
North Rhine-Westphalia	No	0.03(0.01, 0.04)	No	-0.00,	o N	0.00 (-0.01, 0.02)	No		No	-0.01 (-0.03, 0.01)
Hesse	No	0.01 (-0.02, 0.04)	No	-0.01,	No	-0.02 (-0.04, 0.01)	No	-0.01,	No	-0.01 (-0.04, 0.02)
Rhineland-Palatinate	ν	0.04 (0.01, 0.08)	No	-0.04	οN	-0.04 (-0.07, 0.00)	No	-0.02,	No	0.03 (-0.00, 0.07)
Baden-Wuerttemberg	No	0.02 (0.00, 0.04)	No	(0.00)	οN		No	-0.00 (-0.02, 0.02)	No	-0.02 (-0.04, 0.01)
Bavaria	No	0.02 (0.00, 0.04)	No	0.02 (0.00, 0.04)	$^{ m N}_{ m o}$	-0.03 (-0.05, -0.01)	No	-0.02,	No	-0.02 (-0.04, -0.00)
Saarland	No	0.09 (-0.00, 0.18)	No	-0.03,	No	-0.04 (-0.14, 0.05)	$^{\circ}_{ m N}$	-0.01 (-0.10, 0.08)	No	0.06 (-0.02, 0.15)
Berlin	No	0.01 (-0.02, 0.05)	No	-0.06,	No	0.01 (-0.03, 0.04)	$^{ m N}_{ m o}$	0.03 (-0.00, 0.06)	No	
Brandenburg	No	0.05(0.02, 0.08)	No	-0.06,	No	0.00 (-0.03, 0.04)	No	-0.00 (-0.04, 0.03)	No	0.03 (-0.01, 0.07)
Mecklenburg-Western Pomerania	Ν°	0.04 (-0.01, 0.08)	No	-0.03,	No	0.01 (-0.04, 0.06)	No	0.01 (-0.04, 0.05)	No	0.02 (-0.03, 0.08)
Saxony	ν	0.01 (-0.01, 0.03)	No	-0.02 (-0.04, 0.00)	No	-0.00 (-0.02, 0.02)	No	-0.01 (-0.03, 0.01)	No	0.01 (-0.01, 0.03)
Saxony-Anhalt	No	0.02 (-0.01, 0.04)	No	-0.01 (-0.03, 0.02)	No	-0.02 (-0.04, 0.00)	No	-0.01 (-0.03, 0.02)	No	0.04 (0.01, 0.07)
Thuriani	N	(600 100) 100	N	(100,100)	N	0.03 (0.08 0.01)	N	(600 800) 100	No	(90 0 00 0) 80 0

Estimates (with 95% confidence intervals) and convergence and estimation problems in the RI-CLPM with observed measures and all traits modeled simultaneously

	•	Agreeableness	ŭ	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.08 (-0.01, 0.18)	No	-0.09 (-0.19, 0.02)	No	0.04 (-0.07, 0.15)	No	0.20 (0.10, 0.30)	No	-0.04 (-0.14, 0.06)
Hamburg	No	-0.23 (-0.51, 0.04)	No	(-0.08, 0	No	0.08 (-0.14, 0.30)	No	-0.07,	No	$0.01 \ (-0.13, \ 0.15)$
Lower Saxony	No	_	No	(-0.08)	No	(-0.07)	No	0.05 (-0.02, 0.11)	No	-0.00 (-0.07, 0.06)
Bremen	No	_	No	(-0.25,	No	(-0.63,	No	0.06 (-0.18, 0.30)	No	0.30 (0.04, 0.55)
North Rhine-Westphalia	No	_	No	(-0.08)	No	(-0.03)	No	0.05(0.00, 0.09)	No	-0.05, (
Hesse	No	-0.02 (-0.10, 0.05)	No	(-0.03)	No	-0.03 (-0.11, 0.04)	No	0.08 (0.01, 0.15)	No	-0.14,
Rhineland-Palatinate	No	(-0.08)	No	(-0.05)	No	(-0.15,	No	-0.05 (-0.12, 0.03)	No	(0.02,
Baden-Wuerttemberg	No	0.02 (-0.04, 0.07)	No	(-0.05,	No	(-0.08)	No	-0.02 (-0.08, 0.04)	No	-0.04,
Bavaria	No	-0.01 (-0.06, 0.04)	No	-0.00 (-0.05, 0.05)	No	-0.07 (-0.13, -0.02)	No	-0.03 (-0.09, 0.02)	No	$-0.01 \ (-0.06, \ 0.05)$
Saarland	No	(-0.34)	No	(-0.04)	No	-0.02 (-0.23, 0.20)	No	0.04 (-0.17, 0.24)	No	-0.13,
Berlin	No	0.03 (-0.06, 0.13)	No	-0.20,	No	0.01 (-0.08, 0.11)	No	0.07 (-0.02, 0.16)	No	-0.08,
Brandenburg	No	(-0.11,	No	(-0.12)	No	-0.08 (-0.20, 0.05)	No	-0.10 (-0.19, -0.00)	No	-0.01,
Mecklenburg-Western Pomerania	No	(-0.11,	No	(-0.15,	No	0.10 (-0.01, 0.22)	No	-0.03 (-0.14, 0.08)	No	-0.10,
Saxony	No		No	(-0.11)	No	0.02 (-0.04, 0.07)	No	-0.04 (-0.10, 0.02)	No	$-0.01 \ (-0.07, 0.05)$
Saxony-Anhalt	ν̈́	_	οN	(-0.10)	οN	-0.04 (-0.13, 0.05)	No	0.03 (-0.05, 0.12)	No	0.01 (-0.07, 0.09)
Thuringia	No	0.00 (-0.07, 0.07)	No	-0.03 (-0.12, 0.06)	No	-0.02 (-0.10, 0.06)	No	-0.01 (-0.10, 0.07)	No	0.01 (-0.09, 0.11)

Estimates (with 95% confidence intervals) and convergence and estimation problems in the CLPM with latent traits and individual traits modeled separately

		Agreeableness	ပိ	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.09 (0.03, 0.15)	No	-0.01 (-0.07, 0.06)	No	(0.02,	No	0.08 (0.02, 0.14)	No	0.02 (-0.04, 0.07)
Hamburg	Yes	$\overline{}$	οN	(-0.04,	No	-0.08, (No	\sim	Yes	-0.06 (-0.13, 0.02)
Lower Saxony	No	0.03 (-0.00, 0.05)	°N°	(-0.01)	No	-0.00 (-0.03, 0.02)	No	_	No	0.02 (-0.01, 0.04)
Bremen	Yes	0.00 (-0.07, 0.07)	οN		No	-0.00 (-0.12, 0.11)	Yes	(-0.12, 0	No	(-0.01)
North Rhine-Westphalia	No	0.04 (0.02, 0.06)	No	(0.00)	No	0.01 (-0.00, 0.03)	No	(-0.01)	No	-0.01 (-0.02, 0.01)
Hesse	οN	0.02 (-0.01, 0.06)	No	-0.03,	No	0.01 (-0.02, 0.03)	No	(-0.02, 0	No	(-0.05)
Rhineland-Palatinate	οN	_	οN	-0.04,	No	-0.02 (-0.06, 0.02)	No	(-0.03, 0	No	(-0.03)
Baden-Wuerttemberg	No	0.03(0.01, 0.06)	°N°	-0.00,	No	-0.00 (-0.02, 0.02)	No	(-0.03, 0	No	(-0.05)
Bavaria	οN	0.03 (0.01, 0.05)	οN	0.01 (-0.01, 0.03)	No	-0.03 (-0.04, -0.01)	No	0.00 (-0.02, 0.02)	No	-0.03 (-0.05, -0.01)
Saarland	οN	_	οN	(0.01,	No	0.03 (-0.05, 0.12)	No	(-0.11, (No	(-0.00)
Berlin	οN	_	No	-0.06,	No	0.01 (-0.03, 0.05)	No	(-0.02, 0	No	(-0.03)
Brandenburg	οN	0.06(0.03, 0.10)	οN	-0.04,	No	0.03 (-0.00, 0.07)	No	(-0.04, 0	No	(-0.01)
Mecklenburg-Western Pomerania	No	_	°N°	-0.01,	No	0.03 (-0.02, 0.08)	No	(-0.02, (No	(-0.02)
Saxony	οN	_	οN	-0.03,	No	-0.01,	No	(-0.03, 0	No	0.01 (-0.01, 0.04)
Saxony-Anhalt	οN	$0.01 \ (-0.02, 0.04)$	οN	(-0.03)	No	-0.01 (-0.03, 0.02)	No	(-0.04, 0	No	(-0.01)
Thuringia	No	_	No	(-0.05,	No	-0.05,	Yes	(-0.03, (No	(-0.01,

Estimates (with 95% confidence intervals) and convergence and estimation problems in the RI-CLPM with latent traits and individual traits modeled separately

		Agreeableness	č	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	Yes	NA (NA, NA)	No	-0.19 (-0.30, -0.07)	No	0.11 (-0.11, 0.33)	No	0.27 (0.14, 0.39)	No	-0.10 (-0.28, 0.08)
Hamburg	Yes	-0.11 (-0.41, 0.20)	No	0.03 (-0.20, 0.26)	No	$0.11 \ (-0.25, 0.48)$	No	0.15 (-0.23, 0.54)	Yes	NA (NA, NA)
Lower Saxony	No	0.03 (-0.07, 0.12)	No		No	-0.03 (-0.13, 0.06)	No	0.07 (-0.04, 0.18)	oN	-0.03 (-0.13, 0.08)
Bremen	Yes	0.14 (-0.13, 0.41)	Yes	-0.20 (-0.73, 0.33)	No	\sim	Yes	-0.12 (-0.50, 0.25)	No	0.95 (0.65, 1.25)
North Rhine-Westphalia	No	_	No	(-0.12,	No	(-0.06, 0	No	(0.00,	οN	-0.02 (-0.10, 0.06)
Hesse	No	-0.07 (-0.22, 0.08)	No	0.02 (-0.10, 0.14)	No	-0.03 (-0.14, 0.09)	No	0.11 (0.01, 0.21)	No	-0.10 (-0.32, 0.11)
Rhineland-Palatinate	No	(-0.06)	No	0.09 (-0.03, 0.21)	No	(-0.15,	No	-0.18,	οN	0.17 (0.05, 0.29)
Baden-Wuerttemberg	No	(-0.08)	No	0.03 (-0.05, 0.12)	S _O	(-0.12,	No	-0.03 (-0.15, 0.09)	οN	0.05 (-0.06, 0.16)
Bavaria	No	-0.00 (-0.08, 0.08)	No	$\overline{}$	No	-0.09 (-0.19, 0.01)	No	-0.04 (-0.16, 0.08)	No	-0.04 (-0.12, 0.04)
Saarland	Yes	(-0.28)	No		Yes	(-0.38)	No	-0.27,	Yes	0.45 (-0.22, 1.12)
Berlin	No	-0.08 (-0.26, 0.10)	No	\sim	S _O	0.02 (-0.31, 0.35)	No	0.09 (-0.12, 0.30)	οN	-0.02 (-0.22, 0.19)
Brandenburg	No	(-0.14,	No	\sim	No	-0.07 (-0.22, 0.07)	No	-0.15 (-0.33, 0.03)	οN	0.12 (-0.02, 0.25)
Mecklenburg-Western Pomerania	No		No	\sim	S _O	0.22 (-0.00, 0.44)	No	-0.08 (-0.32, 0.16)	οN	0.05 (-0.14, 0.24)
Saxony	Yes	0.05 (-0.03, 0.13)	No	-0.06 (-0.14, 0.02)	No	0.00 (-0.10, 0.10)	No	-0.08 (-0.17, 0.01)	No	-0.00 (-0.08, 0.08)
Saxony-Anhalt	No	0.06 (-0.04, 0.15)	No	-0.00 (-0.09, 0.09)	No	-0.02 (-0.14, 0.10)	No	0.04 (-0.09, 0.17)	No	-0.01 (-0.12, 0.10)
Thuringia	No	0.02 (-0.12, 0.16)	No	-0.04 (-0.17, 0.09)	No	-0.02 (-0.15, 0.11)	Yes	-0.08 (-0.24, 0.07)	No	-0.01 (-0.41, 0.40)

Estimates (with 95% confidence intervals) and convergence and estimation problems in the CLPM with observed measures

and individual traits modeled separately

	٦	Agreeableness	Co	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.09 (0.04, 0.13)	No	0.02 (-0.03, 0.08)	No	0.04 (-0.01, 0.08)	No	(0.02,	No	0.02 (-0.03, 0.07)
Hamburg	No		No	0.03 (-0.03, 0.08)	No		No	-0.03,	No	-0.03 (-0.09, 0.03)
Lower Saxony	No		No	0.02(0.00, 0.04)	No	(-0.03, 0	No	-0.01,	No	(0.00)
Bremen	No	0.02 (-0.06, 0.11)	No	-0.00 (-0.08, 0.08)	No	0.00 (-0.10, 0.10)	No	-0.02 (-0.11, 0.06)	No	0.08 (0.00, 0.17)
North Rhine-Westphalia	No		$^{\circ}_{ m N}$	(0.01,	$^{\circ}_{ m N}$	(-0.01)	No	-0.00,	No	-0.01,
Hesse	No		No	-0.00,	No	(-0.04,	No	-0.01,	No	-0.04,
Rhineland-Palatinate	No	(0.01,	No	-0.03,	No	(-0.05)	No	-0.03,	No	-0.01,
Baden-Wuerttemberg	No		No	(0.01,	No	(-0.03)	οN	-0.02,	No	-0.03,
Bavaria	No		No	0.02 (0.00, 0.03)	No		No	-0.02,	No	0.04,
Saarland	No		No	-0.00,	No	(-0.07,	οN	-0.10,	No	(0.02)
Berlin	No		No	-0.05,	No	(-0.03)	οN	-0.01,	No	-0.03,
Brandenburg	No		No	-0.03,	No	(-0.02)	No	-0.05,	No	-0.01,
Mecklenburg-Western Pomerania	No		$^{ m N}_{ m o}$	0.04 (-0.01, 0.09)	$^{\circ}{ m N}$	(-0.02)	No	-0.04	$^{ m N}_{ m o}$	-0.02,
Saxony	No	(-0.01)	No	-0.01 (-0.03, 0.01)	No		οN	-0.03,	No	-0.01,
Saxony-Anhalt	No		$^{\circ}_{ m N}$	0.00 (-0.02, 0.03)	$^{\circ}$	(-0.03)	No	-0.03,	No	0.03 (-0.00, 0.06)
Thuringia	No	0.00 (-0.03, 0.03)	No	0.01 (-0.01, 0.04)	No	(-0.04)	No	-0.03,	No	-0.00,

Estimates (with 95% confidence intervals) and convergence and estimation problems in the RI-CLPM with observed

measures and individual traits modeled separately

	Ì	Agreeableness	ပိ	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.04 (-0.06, 0.14)	No	-0.14 (-0.24, -0.04)	No	-0.04 (-0.16, 0.08)	No	0.21 (0.11, 0.31)	No	-0.06 (-0.17, 0.06)
Hamburg	No	· ·	No	0.03(-0.11, 0.16)	οN	(-0.15, 0)	No	$\overline{}$	No	0.03 (-0.11, 0.17)
Lower Saxony	No	· ·	No	-0.01 $(-0.08, 0.05)$	No	(-0.07, (No	(-0.01)	No	_
Bremen	No	$0.01 \ (-0.29, 0.32)$	No	-0.07 (-0.42, 0.29)	οN	-0.24 (-0.61, 0.14)	No	0.07 (-0.16, 0.31)	No	0.19 (-0.06, 0.44)
North Rhine-Westphalia	No	(-0.04, (No	-0.02 (-0.07, 0.02)	No	(-0.04)	No	(0.00,	No	_
Hesse	No	-0.03 (-0.10, 0.03)	No	0.03 (-0.05, 0.10)	No	-0.05 (-0.12, 0.02)	No	0.09 (0.02, 0.16)	No	-0.06 (-0.14, 0.03)
Rhineland-Palatinate	No	ٺ	No	0.06 (-0.03, 0.15)	οN	(-0.11)	No	(-0.14, 0	No	(0.03,
Baden-Wuerttemberg	ν	0.02 (-0.04, 0.07)	No	0.02 (-0.04, 0.07)	°N°	-0.00 (-0.06, 0.06)	No	(-0.08, 0	No	(-0.04)
Bavaria	No	· ·	No	-0.01 $(-0.06, 0.04)$	οN	-0.12,	No	-0.03 (-0.08, 0.02)	No	\sim
Saarland	No	(-0.22, 0.00)	No	0.20(0.01, 0.38)	No	0.08 (-0.18, 0.33)	No	(-0.25, 0)	No	(-0.12,
Berlin	No	(-0.08, 0	No	-0.10 (-0.19, -0.01)	No	(-0.11)	No	(-0.03, (No	(-0.10)
Brandenburg	No	-0.00 (-0.09, 0.09)	No	-0.01 $(-0.11, 0.09)$	οN	-0.04 (-0.15, 0.06)	No	-0.08 (-0.18, 0.02)	No	(-0.03)
Mecklenburg-Western Pomerania	ν	(-0.10, (No	0.02 (-0.13, 0.16)	°N N	0.10 (-0.00, 0.20)	No	(-0.14, 0)	No	(-0.08)
Saxony	οN	_	No	-0.03 (-0.09, 0.03)	No	0.01 (-0.04, 0.07)	No	(-0.10, 0)	No	(-0.06)
Saxony-Anhalt	No	(-0.01, (No	(-0.07)	οN	-0.03 (-0.11, 0.05)	No		No	\sim
Thuringia	No	-0.00 (-0.07, 0.07)	No	-0.03 (-0.12, 0.06)	No	(-0.11,	No	-0.01 (-0.10, 0.08)	No	-0.00 (-0.10, 0.09)

Religion Predicting Traits

Estimates (with 95% confidence intervals) and convergence and estimation problems in the CLPM with latent traits and all traits modeled simultaneously

	,	Agreeableness	Cc	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.04 (-0.01, 0.09)		-0.05,	No	0.02 (-0.03, 0.07)	No	0.04 (-0.02, 0.10)	No	-0.02 (-0.07, 0.04)
Hamburg	Yes	0.04 (-0.02, 0.11)		0.02 (-0.06, 0.10)	Yes	0.03 (-0.03, 0.08)	Yes	(-0.05,	Yes	-0.03 (-0.10, 0.05)
Lower Saxony	No	0.02 (-0.01, 0.04)		-0.03,	No	(-0.02)	oN	-0.00 (-0.03, 0.03)	No	-0.03 (-0.06, -0.00)
Bremen	Yes	NA			Yes		Yes		Yes	NA
North Rhine-Westphalia	No	0.03 (0.02, 0.05)	No	$\overline{}$	No	0.01 (-0.01, 0.03)	οN	0.00 (-0.01, 0.02)	No	0.02 (-0.00, 0.03)
Hesse	No	0.05 (0.01, 0.08)		(-0.01)	No	(-0.01)	No	(-0.05,	No	-0.04 (-0.07, -0.01)
Rhineland-Palatinate	No			(-0.07)	No	(-0.04)	No	(-0.03)	No	-0.06 (-0.10, -0.02)
Baden-Wuerttemberg	No	0.02 (-0.00, 0.05)		(-0.05)	No	(-0.02)	No	(-0.03)	No	-0.02 (-0.05, -0.00)
Bavaria	No	0.00 (-0.02, 0.02)		-0.01 (-0.03, 0.01)	No	(-0.02)	No	$0.01 \ (-0.01, \ 0.02)$	No	-0.02 (-0.04, -0.00)
Saarland	Yes	NA			Yes		Yes		Yes	NA
Berlin	No	0.01 (-0.03, 0.05)		(-0.02,	No	(-0.03)	oN	(-0.04,	No	0.02 (-0.02, 0.05)
Brandenburg	No	0.02 (-0.02, 0.06)		(-0.07)	No	(-0.02)	No	(-0.02)	No	0.01 (-0.04, 0.05)
Mecklenburg-Western Pomerania	No	0.04 (-0.02, 0.09)		(-0.08,	No	(-0.04)	No	(-0.07)	No	$0.01 \ (-0.05, \ 0.07)$
Saxony	No	0.00 (-0.03, 0.03)		(-0.03)	No	(-0.02)	No	(-0.03)	No	0.03(0.00, 0.06)
Saxony-Anhalt	No	0.03 (-0.00, 0.07)		0.01 (-0.02, 0.05)	No	-0.00 (-0.04, 0.03)	No	0.01 (-0.03, 0.05)	$^{\circ}_{ m N}$	0.05 (0.01, 0.08)
Thuringia	Z	0.01 (-0.03, 0.04)		(-0.02	Z	(-0.04.	Z	(-0.06	Z	-0.02 (-0.05, 0.02)

Estimates (with 95% confidence intervals) and convergence and estimation problems in the RI-CLPM with latent traits $and\ all\ traits\ modeled\ simultaneously$

		Agreeableness	Co	Conscientiousness		Extraversion		Neuroticism		Openness
7	D. do	1	D.o.b	T + c min	Drob	T to the state of	Duch	T + c mitter	Drob	T + 5 T
State	1100.	Estillate	rion.	Escuilate	1100.	Estillate	r 10D.	Estillate	1100.	Estimate
Schleswig-Holstein	Yes	-0.03 (-0.24, 0.19)	Yes	-0.09 (-0.25, 0.07)	Yes	-0.05 (-0.22, 0.12)	Yes	0.11 (-0.10, 0.33)	Yes	-0.12 (-0.35, 0.11)
Hamburg	Yes	(-0.28)	Yes	$0.08 \ (-0.16, \ 0.32)$	Yes	0.18 (-0.11, 0.46)	Yes	-0.24,	Yes	-0.04 (-0.31, 0.23)
Lower Saxony	No	(-0.16,	No	-0.06 $(-0.15, 0.03)$	No	-0.01 $(-0.11, 0.10)$	No	-0.06,	No	-0.10 (-0.21, 0.01)
Bremen	Yes	(NA,	Yes	NA (NA, NA)	Yes	NA (NA, NA)	Yes	(NA,	Yes	(NA,
North Rhine-Westphalia	No	·	No	-0.02 (-0.07, 0.04)	$^{\circ}$	0.02 (-0.03, 0.08)	ν	0.04 (-0.02, 0.10)	$^{\circ}$	0.06 (0.01, 0.12)
Hesse	No	(-0.32,	No	0.04 (-0.10, 0.17)	No	0.02 (-0.27, 0.32)	No	-0.13,	No	(-0.45,
Rhineland-Palatinate	No	0.04 (-0.08,	No	0.08 (-0.03, 0.20)	No	0.00 (-0.10, 0.10)	οN	-0.20,	No	(-0.01)
Baden-Wuerttemberg	No	0.03 (-0.07,	No	0.01 (-0.08, 0.11)	$^{\circ}{ m N}$	0.05 (-0.04, 0.14)	No	-0.08,	$^{\circ}{ m N}$	0.02 (-0.07, 0.11)
Bavaria	No	-0.04 (-0.12,	No	-0.07 (-0.15, 0.01)	No	-0.03 (-0.12, 0.06)	οN	-0.06,	No	(-0.10)
Saarland	Yes		Yes	NA	Yes	NA	Yes		Yes	
Berlin	Yes	(-0.20,	Yes	-0.25 (-0.50, -0.01)	Yes	(-0.26)	Yes	0.02 (-0.21, 0.26)	Yes	(-0.10)
Brandenburg	No	(-0.17,	No	-0.03 (-0.16, 0.09)	No	(-0.17,	οN	(-0.06)	No	(-0.07,
Mecklenburg-Western Pomerania	Yes	(-0.30)	Yes	-0.10 (-0.25, 0.04)	Yes	(-0.15,	Yes	(-0.27,	Yes	(-0.13)
Saxony	No	-0.06 (-0.17, 0.04)	No	-0.07 (-0.18, 0.04)	No	0.03 (-0.09, 0.15)	οN	(-0.12,	No	0.05 (-0.06, 0.15)
Saxony-Anhalt	No	(-0.17,	No	-0.02 (-0.13, 0.09)	$^{\circ}_{ m N}$	(-0.14,	ν	(-0.16,	$^{\circ}_{ m N}$	(-0.10)
Thuringia	No	(-0.07,	No	-0.02 (-0.16, 0.12)	No	(-0.17,	No	-0.30	No	(-0.13,

Estimates (with 95% confidence intervals) and convergence and estimation problems in the CLPM with observed measures and all traits modeled simultaneously

	,	Agreeableness	ŭ	Conscientiousness		Extraversion		Neuroticism		Openness
State	State Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.05 (0.00, 0.10)	No	_	No	-0.02 (-0.06, 0.03)	No	0.04 (-0.01, 0.08)	No	0.01 (-0.04, 0.05)
Hamburg	No	0.05 (-0.01, 0.11)	No	0.02 (-0.04, 0.08)	No	\sim	No	-0.00 (-0.05, 0.04)	No	0.00 (-0.05, 0.06)
Lower Saxony	No	0.05(0.02, 0.07)	No	$^{\circ}$	No	\sim	No	\sim	$^{ m N}_{ m o}$	_
Bremen	No	-0.01 (-0.11, 0.08)	No	(-0.13)	No	0.01 (-0.08, 0.10)	No	-0.02 (-0.10, 0.06)	No	(-0.09)
North Rhine-Westphalia	No	0.06 (0.05, 0.08)	No	(0.02, 0	No	0.00 (-0.01, 0.02)	No	-0.00 (-0.02, 0.01)	No	0.03 (0.02, 0.05)
Hesse	No	0.07 (0.05, 0.10)	No	(0.02,	No	(-0.01, 0	No	$\overline{}$	No	(-0.04,
Rhineland-Palatinate	No	0.03 (-0.00, 0.07)	No	-0.03, 0	No	(-0.05, (No	(-0.03)	No	(-0.05, 0)
Baden-Wuerttemberg	No	$^{\circ}$	No	(-0.01)	No	_	No	\sim	$^{ m N}_{ m o}$	(-0.05, 0
Bavaria	No		No	(-0.01, 0.01)	No	(-0.02, 0	No	$\overline{}$	No	(-0.03,
Saarland	No	-0.05 (-0.16, 0.05)	No	0.01 (-0.09, 0.12)	No	(-0.03, (No	\sim	No	(-0.08)
Berlin	No		No	(-0.00, 0	No	(-0.02, (No	\sim	$^{ m N}_{ m o}$	(-0.01,
Brandenburg	No		No	(-0.05, 0)	No	_	No	$\overline{}$	No	(-0.01, 0.01)
Mecklenburg-Western Pomerania	No	0.04 (-0.01, 0.09)	οN	(-0.03, 0	No	$\overline{}$	No	-0.02 (-0.06, 0.03)	$^{ m N}_{ m o}$	(-0.01)
Saxony	No	0.01 (-0.01, 0.04)	No	0.01 (-0.02, 0.03)	No	-0.01 (-0.03, 0.01)	No	0.01 (-0.01, 0.03)	No	(0.02,
Saxony-Anhalt	No	0.04 (0.01, 0.08)	No	(-0.01)	No	\sim	No	0.00 (-0.03, 0.04)	No	
Thuringia	No	0.02 (-0.01, 0.05)	No	0.01 (-0.02, 0.04)	No	-0.01 (-0.04, 0.02)	No	-0.01 (-0.04, 0.02)	$_{\rm N_o}$	·

Estimates (with 95% confidence intervals) and convergence and estimation problems in the RI-CLPM with observed

measures and all traits modeled simultaneously

	Ţ	Agreeableness	Ĉ	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	-0.06 (-0.20, 0.08)	No	-0.13 (-0.27, 0.00)	No	-0.11 (-0.28, 0.05)	No		No	-0.08 (-0.27, 0.12)
Hamburg	No	(-0.29, 0	οN	(-0.10, 0	No	0.12 (-0.02, 0.26)	No	(-0.14,	No	-0.00 (-0.13, 0.12)
Lower Saxony	No	-0.01 (-0.08, 0.06)	No	-0.04 (-0.11, 0.04)	No	0.02 (-0.05, 0.10)	No	0.06 (-0.01, 0.13)	No	-0.06 $(-0.13, 0.01)$
Bremen	No	(-0.28)	οN	-0.16 (-0.40, 0.08)	No	-0.10 (-0.46, 0.27)	No	(-0.04,	No	$0.28 \ (-0.06, 0.62)$
North Rhine-Westphalia	No	0.01 (-0.03, 0.05)	ν	-0.01 (-0.06, 0.03)	$^{\circ}$	0.01 (-0.03, 0.05)	No	(-0.02)	No	0.05 (0.00, 0.09)
Hesse	No	(-0.10)	No	0.00 (-0.08, 0.09)	No	\sim	No	(-0.04,	No	-0.06 (-0.15, 0.04)
Rhineland-Palatinate	No	(-0.08)	οN	(-0.01)	No	\sim	No	(-0.16,	No	-0.01,
Baden-Wuerttemberg	No	(-0.04)	°N	_	No	\sim	No	(-0.06)	No	-0.05,
Bavaria	No	(-0.08)	οN	(-0.09)	No	\sim	No	(-0.07)	No	-0.07,
Saarland	No	-0.23 (-0.50, 0.04)	ν	0.33(0.02, 0.63)	$^{\circ}$	0.23 (-0.07, 0.52)	No	(-0.28)	No	0.11 (-0.19, 0.40)
Berlin	No	(-0.09)	No	\sim	$^{\circ}{ m N}$	\sim	$^{\circ}_{ m N}$	(-0.13,	No	-0.06,
Brandenburg	No	(-0.14,	οN	_	No	-0.02 (-0.13, 0.09)	No	(-0.08)	No	-0.05,
Mecklenburg-Western Pomerania	No	-0.13 (-0.24, -0.02)	No	\sim	No	0.07 (-0.05, 0.19)	No	(-0.18)	No	-0.09,
Saxony	No	-0.01 (-0.09, 0.07)	No	-0.03 (-0.13, 0.07)	No	0.02 (-0.07, 0.11)	No	(-0.10,	No	0.03 (-0.05, 0.11)
Saxony-Anhalt	No	(-0.11)	ν	-0.03 (-0.11, 0.05)	$^{\circ}$	0.01 (-0.09, 0.12)	No	-0.00 (-0.10, 0.10)	No	-0.10,
Thuringia	No	0.04 (-0.05, 0.12)	No	-0.01 (-0.10, 0.07)	$^{\circ}{ m N}$	-0.03 (-0.11, 0.05)	$^{\circ}_{ m N}$	-0.11 (-0.20, -0.02)	No	-0.06 (-0.17, 0.05)

Estimates (with 95% confidence intervals) and convergence and estimation problems in the CLPM with latent traits and individual traits modeled separately

		Agreeableness	Co	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.02 (-0.04, 0.07)	No	-0.01 (-0.06, 0.05)	No	0.03 (-0.02, 0.08)	No	0.04 (-0.02, 0.10)	No	-0.01 (-0.07, 0.05)
Hamburg	Yes	0.02 (-0.07, 0.10)	No	-0.01 (-0.08, 0.06)	οN	0.02 (-0.04, 0.08)	No	-0.00 (-0.06, 0.05)	Yes	
Lower Saxony	οN	0.02 (-0.01, 0.04)	No	-0.01 $(-0.03, 0.02)$	No	0.00 (-0.02, 0.03)	No	0.00 (-0.02, 0.03)	oN	· · ·
Bremen	Yes		No	-0.07 (-0.18, 0.04)	οN		Yes		οN	
North Rhine-Westphalia	No		No	0.00 (-0.01, 0.02)	No	(-0.01)	No	-0.00 (-0.02, 0.02)	No	(0.01)
Hesse	οN	0.05 (0.02, 0.08)	No	0.02 (-0.01, 0.05)	No		No	-0.02 (-0.05, 0.01)	οN	-0.03 (-0.07, -0.00)
Rhineland-Palatinate	No		No	-0.02 (-0.06, 0.02)	οN	-0.01 (-0.04, 0.03)	No	0.02 (-0.02, 0.06)	οN	-0.08, -
Baden-Wuerttemberg	No		No	-0.01 (-0.04, 0.01)	No	-0.00 (-0.02, 0.02)	No	0.00 (-0.02, 0.03)	No	-0.04,
Bavaria	No	0.00 (-0.02, 0.02)	No	-0.01 (-0.03, 0.01)	οN	-0.00 (-0.02, 0.02)	No	0.01 (-0.01, 0.03)	οN	-0.02 (-0.04, 0.00)
Saarland	No	- 1	No	-0.04 (-0.14, 0.05)	No		No	-0.02 (-0.13, 0.09)	No	-0.11,
Berlin	No		No	0.01 (-0.02, 0.04)	No	$0.01 \ (-0.02, 0.04)$	$^{\circ}_{ m N}$	0.00 (-0.04, 0.04)	No	0.01 (-0.03, 0.04)
Brandenburg	No	-0.02,	No	-0.03 (-0.07, 0.02)	οN	0.02 (-0.02, 0.05)	No	0.02 (-0.02, 0.05)	οN	-0.00 (-0.05, 0.04)
Mecklenburg-Western Pomerania	No	_	No	-0.01 (-0.07, 0.04)	No	0.01 (-0.04, 0.05)	No	-0.02 (-0.07, 0.03)	No	0.02 (-0.04, 0.08)
Saxony	No	-0.02 (-0.04, 0.01)	No	0.00 (-0.03, 0.03)	οN	0.00 (-0.02, 0.02)	No	-0.00 (-0.03, 0.02)	οN	0.03 (0.00, 0.06)
Saxony-Anhalt	No	0.03 (-0.00, 0.07)	No	0.02 (-0.02, 0.05)	No	-0.00 (-0.04, 0.03)	No	0.00 (-0.04, 0.04)	No	\sim
Thuringia	No	0.01 (-0.02, 0.05)	No	0.01 (-0.02, 0.05)	No	-0.01 (-0.04, 0.02)	Yes	-0.02 (-0.05, 0.01)	No	-0.02 (-0.06, 0.01)

Estimates (with 95% confidence intervals) and convergence and estimation problems in the RI-CLPM with latent traits and individual traits modeled separately

		Agreeableness	Cc	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	Yes	NA (NA, NA)	No	-0.23 (-0.40, -0.05)	No	0.03 (-0.20, 0.26)	No	0.30 (0.08, 0.52)	No	-0.26 (-0.61, 0.10)
Hamburg	Yes	0.01 (-0.16, 0.18)	No		No	0.15 (-0.02, 0.32)	No	$\overline{}$	Yes	NA (NA, NA)
Lower Saxony	No	(-0.13, (No	(-0.13,	No	(-0.11, (No	(-0.05,	No	-0.10 (-0.23, 0.02)
Bremen	Yes	0.15 (-0.18, 0.47)	Yes		No	-0.16 (-0.47, 0.16)	Yes	\sim	No	$0.49\ (0.11,\ 0.86)$
North Rhine-Westphalia	No	(-0.05)	No	-0.03 (-0.08, 0.03)	$^{ m N}$	0.03 (-0.03, 0.08)	No	(-0.02, 0	οN	0.05 (-0.00, 0.10)
Hesse	No	(-0.16,	No	0.04 (-0.08, 0.16)	No	(-0.12,	No	(-0.08,	No	-0.12 (-0.30, 0.07)
Rhineland-Palatinate	No	(-0.14,	No	0.09 (-0.03, 0.20)	No	(-0.11,	No	(-0.23,	No	-0.02,
Baden-Wuerttemberg	No	(-0.02)	No	0.02 (-0.08, 0.12)	°N	(-0.04,	No	(-0.08)	No	-0.07,
Bavaria	No	-0.04	No	-0.07 (-0.15, 0.01)	No		No	0.00 (-0.10, 0.11)	No	-0.03 (-0.12, 0.06)
Saarland	Yes	-0.12 (-0.65,	No	\sim	Yes		No	(-0.73,	Yes	-0.29,
Berlin	No	-0.02 (-0.28, 0	No	-0.22 (-0.49, 0.04)	No	(-0.39)	No	(-0.19)	No	-0.13,
Brandenburg	No		No	\sim	No		No	(-0.12,	No	-0.07,
Mecklenburg-Western Pomerania	No	(-0.38, (No	\sim	°N		No	(-0.31,	No	-0.17,
Saxony	Yes	_	No	-0.05 (-0.16, 0.06)	No		No	\sim	No	-0.06,
Saxony-Anhalt	No	-0.05 (-0.17, 0.08)	No	-0.03 (-0.13, 0.08)	$^{ m N}$	0.04 (-0.12, 0.19)	No	-0.00 (-0.17, 0.16)	οN	-0.00 (-0.14, 0.13)
Thuringia	No	0.03 (-0.10, 0.16)	No	-0.04 (-0.15, 0.08)	No	-0.08 (-0.19, 0.04)	Yes	-0.18 (-0.31, -0.04)	No	-0.05 (-0.17, 0.08)

Estimates (with 95% confidence intervals) and convergence and estimation problems in the CLPM with observed measures and individual traits modeled separately

		Agreeableness	Co	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	0.04 (-0.00, 0.09)	No	(-0.03,	No	-0.01 (-0.06, 0.03)	No	0.04 (-0.01, 0.08)	No	0.01 (-0.04, 0.05)
Hamburg	No	0.04 (-0.01, 0.10)	No	_	No	0.02 (-0.04, 0.08)	No	(-0.04, 0	No	-0.00 (-0.05, 0.05)
Lower Saxony	No	0.04 (0.02, 0.07)	No	(-0.01)	No	(-0.02, 0	No	(-0.02)	No	-0.01 $(-0.03, 0.02)$
Bremen	No	-0.02 (-0.11, 0.07)	No	-0.03 (-0.12, 0.05)	No	_	No	-0.02 (-0.10, 0.07)	No	-0.01 (-0.08, 0.06)
North Rhine-Westphalia	No	0.05(0.04, 0.07)	No	(0.01, 0	No	(-0.01, 0	No	(-0.02)	No	0.03(0.01, 0.04)
Hesse	No	0.07 (0.04, 0.10)	No	(0.02, 0	No	(-0.01,	No	(-0.03)	οN	-0.01 (-0.04, 0.01)
Rhineland-Palatinate	No	0.03 (-0.00, 0.06)	No	(-0.03, 0	No	(-0.05, 0	No	(-0.03)	No	-0.05,
Baden-Wuerttemberg	No	0.05(0.03, 0.07)	No	(-0.01)	No	(-0.02, 0	No	(-0.01)	No	-0.02,
Bavaria	No	0.03 (0.01, 0.05)	No	0.01 (-0.01, 0.03)	No	-0.00 (-0.02, 0.01)	No	0.01 (-0.01, 0.02)	οN	-0.01 (-0.03, 0.01)
Saarland	No	-0.06 (-0.14, 0.02)	No	(-0.07, 0.07)	No	(-0.03, 0	No	(-0.10)	No	-0.06,
Berlin	No	0.03 (-0.01, 0.06)	No	(-0.00, 0	No	(-0.02, 0	No	(-0.04,	No	-0.01,
Brandenburg	No	0.02 (-0.01, 0.05)	No	(-0.05, 0.05)	No	(-0.02, 0	No	(-0.02)	No	-0.01, (
Mecklenburg-Western Pomerania	No	0.03 (-0.02, 0.08)	οN	(-0.04, 0	No	(-0.02,	No	(-0.06)	No	-0.01, (
Saxony	No	0.01 (-0.01, 0.03)	No	(-0.02, 0.02)	No	(-0.03,	No	(-0.01)	No	0.04 (0.02, 0.06)
Saxony-Anhalt	No	0.04 (0.01, 0.08)	$^{ m o}$	(-0.01)	No	0.00 (-0.03, 0.03)	No	0.00 (-0.03, 0.03)	No	(0.04, 0
Thuringia	No	0.02 (-0.01, 0.05)	No	(-0.02, 0)	No	-0.01 (-0.04, 0.02)	No		No	-0.03, 0

Estimates (with 95% confidence intervals) and convergence and estimation problems in the RI-CLPM with observed

measures and individual traits modeled separately

	Ţ	Agreeableness	Co	Conscientiousness		Extraversion		Neuroticism		Openness
State	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate	Prob.	Estimate
Schleswig-Holstein	No	-0.09 (-0.25, 0.06)	No	-0.18 (-0.32, -0.05)	No	-0.16 (-0.36, 0.04)	No	0.23 (0.07, 0.39)	No	-0.14 (-0.35, 0.08)
Hamburg	No	-0.07 (-0.34, 0.19)	No	(-0.06,	No	(-0.01)	No	(-0.12, (No	$-0.01 \ (-0.13, \ 0.10)$
Lower Saxony	No	ٺ	No	-0.04 (-0.11, 0.03)	No	0.02 (-0.06, 0.09)	No	(-0.01, (No	-0.06 (-0.13, 0.01)
Bremen	No	-0.05 $(-0.23, 0.14)$	No	-0.17 $(-0.40, 0.06)$	No	· ·	No	_	No	0.25 $(-0.03, 0.52)$
North Rhine-Westphalia	No	ٺ.	No	\sim	No	· ·	No	\sim	No	
Hesse	No	_	No	0.00 (-0.08, 0.09)	No	(-0.09)	No	(-0.03, 0	No	-0.05 (-0.15, 0.04)
Rhineland-Palatinate	No	٠.	No	(-0.01)	No	(-0.11,	No	(-0.16, 0	No	0.07 (-0.02, 0.16)
Baden-Wuerttemberg	No	_	No	(-0.07)	No	0.04 (-0.02, 0.11)	No	(-0.06,	No	0.03 (-0.04, 0.09)
Bavaria	No	(-0.08)	No	-0.03 (-0.09, 0.03)	No	-0.00 (-0.06, 0.06)	No	_	No	-0.01 $(-0.07, 0.06)$
Saarland	No	(-0.49)	No	(0.05,	No	(-0.11,	No	(-0.52,	No	0.17 (-0.18, 0.52)
Berlin	No	٠.	No	-0.12 (-0.27, 0.02)	No	\sim	No	(-0.12,	No	0.08 (-0.06, 0.22)
Brandenburg	No	(-0.14,	No	-0.13,	No	\sim	No	(-0.08)	No	$0.04 \ (-0.05, 0.14)$
Mecklenburg-Western Pomerania	No	·	No	-0.18,	No	0.09 (-0.04, 0.21)	No	(-0.17,	No	0.03 (-0.09, 0.15)
Saxony	No		No	-0.12,	No	0.02 (-0.07, 0.11)	No	_	No	0.03 (-0.05, 0.11)
Saxony-Anhalt	$^{ m o}$	\sim	S	-0.03 (-0.10, 0.04)	°Z	0.02 (-0.08, 0.12)	$^{\circ}_{ m N}$	-0.01 (-0.11, 0.08)	No	-0.00 (-0.10, 0.09)
Thuringia	No	0.02 (-0.07, 0.10)	No	-0.01 (-0.10, 0.07)	No	-0.05 (-0.12, 0.03)	No	-0.11 (-0.20, -0.02)	No	-0.07 (-0.17, 0.03)

Results from Dynamic Panel Model

Table 17

Fit Indices and cross-lagged (with 95% confidence intervals) for paths for the single-variable, observed-variable dynamic panel model.

Trait	Chi-Square	df	p-value	CFI	RMSEA	SRMR	Trait -> Religion	Religion -> Trait
AGR	35.16	13.00	0.00	1.00	0.01	0.01	0.00 (-0.01, 0.02)	-0.01 (-0.04, 0.02)
CNS	54.22	13.00	0.00	1.00	0.02	0.01	-0.02 (-0.03, -0.00)	-0.02 (-0.04, 0.01)
EXT	52.90	13.00	0.00	1.00	0.02	0.01	-0.02 (-0.04, -0.00)	$0.00 \ (-0.02, \ 0.03)$
NEU	38.32	13.00	0.00	1.00	0.01	0.01	$0.02\ (0.00,\ 0.04)$	0.02 (-0.01, 0.04)
OPN	35.20	13.00	0.00	1.00	0.01	0.01	-0.01 (-0.03, 0.01)	0.01 (-0.02, 0.03)

Note. AGR = Agreeableness; CNS = Conscientiousness; EXT = Extraversion, NEU = Neuroticism, OPN = Openness.

Table 18

Fit Indices and cross-lagged (with 95% confidence intervals) for paths for the single-variable, latent-variable dynamic panel model.

Trait	Chi-Square	df	p-value	CFI	RMSEA	SRMR	Trait -> Religion	Religion -> Trait
AGR	708.40	83.00	0.00	0.99	0.02	0.02	0.01 (-0.02, 0.04)	-0.02 (-0.05, 0.02)
CNS	878.22	83.00	0.00	0.99	0.02	0.03	-0.02 (-0.05, 0.00)	-0.01 (-0.04, 0.03)
EXT	564.72	83.00	0.00	1.00	0.02	0.02	-0.03 (-0.06, -0.00)	$0.01 \ (-0.02, \ 0.03)$
NEU	267.86	83.00	0.00	1.00	0.01	0.01	0.02 (-0.01, 0.05)	$0.02 \ (-0.02, \ 0.05)$
OPN	883.26	83.00	0.00	1.00	0.02	0.03	-0.00 (-0.03, 0.03)	$0.01 \ (-0.03, \ 0.04)$

Note. AGR = Agreeableness; CNS = Conscientiousness; EXT = Extraversion, NEU = Neuroticism, OPN = Openness.