

OSF Material 8: Results of AIC versus BIC Model Comparisons

Results for the Content Domain Reasoning Ability

Table 1: Content domain reasoning ability, outcome category global self-evaluation

nicenames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Curvilinear PSV	6	11576.37	0.00	0.961	11602.33	0.00	0.742	-5782.11	0.24	0.00	-0.07	0.00	0.00
Full model	9	11580.87	4.50	(-)	11619.72	17.39	(-)	-5781.28	0.24	0.01	-0.08	0.04	0.01
Beneficial PSV Only	5	11582.79	6.42	0.039	11604.45	2.11	0.258	-5786.34	0.27	0.00	0.00	0.00	0.00
Beneficial PSV and Ability	6	11584.80	8.43	(-)	11610.77	8.43	(-)	-5786.33	0.27	0.01	0.00	0.00	0.00
Beneficial SE	6	11584.83	8.47	(-)	11610.80	8.47	(-)	-5786.34	0.27	0.00	0.00	0.00	0.00
Interaction	7	11586.74	10.37	(-)	11617.01	14.68	(-)	-5786.27	0.27	0.01	0.00	0.01	0.00
Optimal Margin	6	11602.99	26.62	0	11628.96	26.62	0	-5795.42	0.13	-0.13	-0.05	0.10	-0.05
Self-Knowledge	5	11617.82	41.45	0	11639.48	37.14	0	-5803.86	0.00	0.00	-0.05	0.10	-0.05
Null model	4	11623.38	47.01	0	11640.72	38.38	0	-5807.65	0.00	0.00	0.00	0.00	0.00
Beneficial Ability Only	5	11623.90	47.53	(-)	11645.55	43.22	(-)	-5806.90	0.00	0.05	0.00	0.00	0.00
Detrimental PSV Only	5	11625.42	49.05	(-)	11647.07	44.74	(-)	-5807.65	0.00	0.00	0.00	0.00	0.00
Curvilinear Ability	6	11625.94	49.57	(-)	11651.91	49.57	(-)	-5806.90	0.00	0.05	0.00	0.00	0.00
Detrimental SE	6	11625.94	49.57	(-)	11651.91	49.57	(-)	-5806.90	0.00	0.05	0.00	0.00	0.00
Detrimental PSV and Ability	6	11627.46	51.09	(-)	11653.43	51.09	(-)	-5807.65	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $\Delta AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. ΔBIC = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Table 2: Content domain reasoning ability, outcome category well-being

nicenames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Curvilinear PSV	6	11591.45	0.00	0.727	11617.42	0.00	0.707	-5789.65	0.19	0.00	-0.07	0.00	0.00
Full model	9	11593.69	2.24	0.237	11632.54	15.12	0	-5787.69	0.19	0.02	-0.09	0.08	-0.01
Beneficial PSV Only	5	11597.53	6.08	0.035	11619.19	1.77	0.292	-5793.71	0.22	0.00	0.00	0.00	0.00
Beneficial PSV and Ability	6	11599.32	7.87	(-)	11625.29	7.87	(-)	-5793.59	0.22	0.02	0.00	0.00	0.00
Beneficial SE	6	11599.57	8.12	(-)	11625.54	8.12	(-)	-5793.71	0.22	0.00	0.00	0.00	0.00
Interaction	7	11600.43	8.98	(-)	11630.70	13.28	(-)	-5793.11	0.22	0.02	0.00	0.04	0.00
Optimal Margin	6	11605.71	14.26	0.001	11631.68	14.26	0.001	-5796.78	0.10	-0.10	-0.06	0.12	-0.06
Self-Knowledge	5	11613.25	21.80	0	11634.91	17.49	0	-5801.57	0.00	0.00	-0.06	0.12	-0.06
Null model	4	11623.38	31.93	0	11640.72	23.30	0	-5807.65	0.00	0.00	0.00	0.00	0.00
Beneficial Ability Only	5	11623.62	32.17	(-)	11645.27	27.86	(-)	-5806.76	0.00	0.06	0.00	0.00	0.00
Detrimental PSV Only	5	11625.42	33.96	(-)	11647.07	29.65	(-)	-5807.65	0.00	0.00	0.00	0.00	0.00
Curvilinear Ability	6	11625.66	34.20	(-)	11651.62	34.20	(-)	-5806.75	0.00	0.06	0.00	0.00	-0.00
Detrimental SE	6	11625.66	34.21	(-)	11651.63	34.21	(-)	-5806.76	0.00	0.06	0.00	0.00	0.00
Detrimental PSV and Ability	6	11627.46	36.01	(-)	11653.43	36.01	(-)	-5807.65	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $\Delta AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. ΔBIC = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Table 3: Content domain reasoning ability, outcome category self-rated agentic outcomes

nicenames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Beneficial PSV Only	5	11592.84	0.00	1	11614.50	0.00	1	-5791.37	0.24	0.00	0.00	0.00	0.00
Curvilinear PSV	6	11594.81	1.96	(-)	11620.77	6.27	(-)	-5791.33	0.23	0.00	-0.01	0.00	0.00
Beneficial PSV and Ability	6	11594.81	1.97	(-)	11620.78	6.28	(-)	-5791.33	0.24	0.01	0.00	0.00	0.00
Beneficial SE	6	11594.89	2.04	(-)	11620.85	6.35	(-)	-5791.37	0.24	0.00	0.00	0.00	0.00
Interaction	7	11596.71	3.86	(-)	11626.98	12.47	(-)	-5791.25	0.24	0.01	0.00	0.01	0.00
Full model	9	11599.81	6.97	(-)	11638.67	24.17	(-)	-5790.75	0.23	0.00	-0.01	0.03	-0.03
Optimal Margin	6	11612.52	19.67	0	11638.49	23.98	0	-5800.19	0.11	-0.11	-0.03	0.06	-0.03
Self-Knowledge	5	11622.65	29.80	0	11644.30	29.80	0	-5806.27	0.00	0.00	-0.03	0.06	-0.03
Null model	4	11623.38	30.54	0	11640.72	26.22	0	-5807.65	0.00	0.00	0.00	0.00	0.00
Beneficial Ability Only	5	11623.99	31.15	(-)	11645.65	31.15	(-)	-5806.94	0.00	0.05	0.00	0.00	0.00
Detrimental PSV Only	5	11625.42	32.57	(-)	11647.07	32.57	(-)	-5807.65	0.00	0.00	0.00	0.00	0.00
Curvilinear Ability	6	11625.52	32.68	(-)	11651.49	36.99	(-)	-5806.69	0.00	0.04	0.00	0.00	-0.02
Detrimental SE	6	11626.03	33.19	(-)	11652.00	37.50	(-)	-5806.94	0.00	0.05	0.00	0.00	0.00
Detrimental PSV and Ability	6	11627.46	34.61	(-)	11653.43	38.92	(-)	-5807.65	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $\Delta AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. ΔBIC = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Table 4: Content domain reasoning ability, outcome category peer-rated agentic outcomes

nicenames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Beneficial PSV and Ability	6	11586.93	0.00	0.768	11612.90	0.00	0.649	-5787.39	0.12	0.20	0.00	0.00	0.00
Interaction	7	11588.98	2.05	(-)	11619.25	6.35	(-)	-5787.39	0.12	0.20	0.00	0.00	0.00
Full model	9	11589.79	2.86	0.184	11628.65	15.74	0	-5785.74	0.10	0.20	-0.04	-0.03	-0.01
Beneficial Ability Only	5	11592.47	5.54	0.048	11614.13	1.23	0.351	-5791.18	0.00	0.22	0.00	0.00	0.00
Curvilinear Ability	6	11594.17	7.24	(-)	11620.14	7.24	(-)	-5791.01	0.00	0.21	0.00	0.00	-0.02
Detrimental SE	6	11594.52	7.58	(-)	11620.49	7.58	(-)	-5791.18	0.00	0.22	0.00	0.00	0.00
Curvilinear PSV	6	11606.79	19.85	0	11632.75	19.85	0	-5797.32	0.13	0.00	-0.04	0.00	0.00
Beneficial PSV Only	5	11607.35	20.41	0	11629.00	16.10	0	-5798.62	0.15	0.00	0.00	0.00	0.00
Beneficial SE	6	11609.39	22.45	(-)	11635.36	22.45	(-)	-5798.62	0.15	0.00	0.00	0.00	0.00
Null model	4	11617.70	30.77	0	11635.05	22.14	0	-5804.82	0.00	0.00	0.00	0.00	0.00
Self-Knowledge	5	11618.03	31.10	(-)	11639.69	26.79	(-)	-5803.96	0.00	0.00	-0.02	0.05	-0.02
Detrimental PSV Only	5	11619.74	32.81	(-)	11641.40	28.50	(-)	-5804.82	0.00	0.00	0.00	0.00	0.00
Optimal Margin	6	11620.08	33.14	(-)	11646.05	33.14	(-)	-5803.96	0.00	0.00	-0.02	0.05	-0.02
Detrimental PSV and Ability	6	11621.78	34.85	(-)	11647.75	34.85	(-)	-5804.82	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $Delta_AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. $Delta_BIC$ = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Table 5: Content domain reasoning ability, outcome category peer-rated communal outcomes

nicenames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Detrimental SE	6	11606.96	0.00	0.695	11632.93	2.64	0.197	-5797.41	-0.08	0.15	0.00	0.00	0.00
Beneficial Ability Only	5	11608.63	1.67	0.301	11630.29	0.00	0.735	-5799.26	0.00	0.14	0.00	0.00	0.00
Interaction	7	11609.01	2.05	(-)	11639.28	8.99	(-)	-5797.41	-0.08	0.15	0.00	0.00	0.00
Curvilinear Ability	6	11609.86	2.90	(-)	11635.83	5.53	(-)	-5798.86	0.00	0.13	0.00	0.00	-0.03
Beneficial PSV and Ability	6	11610.68	3.72	(-)	11636.65	6.35	(-)	-5799.26	0.00	0.14	0.00	0.00	0.00
Full model	9	11611.95	4.99	(-)	11650.80	20.51	(-)	-5796.81	-0.09	0.14	-0.02	0.01	-0.03
Null model	4	11617.70	10.74	0.003	11635.05	4.75	0.068	-5804.82	0.00	0.00	0.00	0.00	0.00
Detrimental PSV Only	5	11617.98	11.02	(-)	11639.64	9.35	(-)	-5803.94	-0.06	0.00	0.00	0.00	0.00
Self-Knowledge	5	11618.63	11.67	(-)	11640.29	10.00	(-)	-5804.26	0.00	0.00	-0.02	0.04	-0.02
Curvilinear PSV	6	11619.63	12.67	0.001	11645.60	15.31	0	-5803.74	-0.06	0.00	-0.02	0.00	0.00
Beneficial PSV Only	5	11619.74	12.78	(-)	11641.40	11.11	(-)	-5804.82	0.00	0.00	0.00	0.00	0.00
Detrimental PSV and Ability	6	11620.02	13.06	(-)	11645.99	15.70	(-)	-5803.94	-0.06	0.00	0.00	0.00	0.00
Optimal Margin	6	11620.67	13.71	(-)	11646.64	16.35	(-)	-5804.26	0.00	0.00	-0.02	0.04	-0.02
Beneficial SE	6	11621.78	14.82	(-)	11647.75	17.46	(-)	-5804.82	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $Delta_AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. $Delta_BIC$ = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Results for the Content Domain Vocabulary Knowledge

Table 6: Content domain vocabulary knowledge, outcome category global self-evaluation

nicens	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Full model	10	49453.67	0.00	0.582	49512.36	16.48	0	-24716.79	0.32	-0.04	-0.04	0.03	-0.00
Curvilinear PSV	7	49454.78	1.10	0.335	49495.87	0.00	0.536	-24720.37	0.31	0.00	-0.04	0.00	0.00
Beneficial SE	7	49457.85	4.18	0.072	49498.95	3.08	0.115	-24721.91	0.34	-0.04	0.00	0.00	0.00
Interaction	8	49458.81	5.14	(-)	49505.77	9.90	(-)	-24721.38	0.34	-0.04	0.00	0.02	0.00
Beneficial PSV Only	6	49461.50	7.83	0.012	49496.73	0.86	0.349	-24724.73	0.33	0.00	0.00	0.00	0.00
Beneficial PSV and Ability	7	49463.51	9.84	(-)	49504.61	8.73	(-)	-24724.73	0.33	0.00	0.00	0.00	0.00
Optimal Margin	7	49587.63	133.96	0	49628.73	132.86	0	-24786.80	0.19	-0.19	-0.04	0.07	-0.04
Self-Knowledge	6	49728.21	274.54	0	49763.44	267.57	0	-24858.09	0.00	0.00	-0.04	0.09	-0.04
Beneficial Ability Only	6	49762.34	308.67	0	49797.57	301.70	0	-24875.15	0.00	0.03	0.00	0.00	0.00
Null model	5	49763.27	309.60	0	49792.63	296.76	0	-24876.62	0.00	0.00	0.00	0.00	0.00
Curvilinear Ability	7	49764.35	310.68	(-)	49805.44	309.57	(-)	-24875.15	0.00	0.03	0.00	0.00	0.00
Detrimental SE	7	49764.35	310.68	(-)	49805.44	309.57	(-)	-24875.15	0.00	0.03	0.00	0.00	0.00
Detrimental PSV Only	6	49765.28	311.61	(-)	49800.51	304.64	(-)	-24876.62	0.00	0.00	0.00	0.00	0.00
Detrimental PSV and Ability	7	49767.29	313.62	(-)	49808.38	312.51	(-)	-24876.62	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $Delta_AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. $Delta_BIC$ = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Table 7: Content domain vocabulary knowledge, outcome category well-being

nicensames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Curvilinear PSV	7	49622.07	0.00	0.763	49663.17	0.00	0.947	-24804.02	0.19	0.00	-0.04	0.00	0.00
Full model	10	49624.46	2.39	0.231	49683.15	19.98	0	-24802.19	0.20	-0.04	-0.04	-0.00	-0.01
Beneficial SE	7	49632.31	10.24	0.005	49673.40	10.24	0.006	-24809.13	0.23	-0.04	0.00	0.00	0.00
Beneficial PSV Only	6	49633.95	11.88	0.002	49669.18	6.01	0.047	-24810.96	0.22	0.00	0.00	0.00	0.00
Interaction	8	49634.32	12.25	(-)	49681.28	18.11	(-)	-24809.13	0.23	-0.04	0.00	0.00	0.00
Beneficial PSV and Ability	7	49635.96	13.89	(-)	49677.05	13.89	(-)	-24810.96	0.22	0.00	0.00	0.00	0.00
Optimal Margin	7	49681.91	59.83	0	49723.00	59.83	0	-24833.93	0.13	-0.13	-0.03	0.05	-0.03
Self-Knowledge	6	49747.24	125.17	0	49782.47	119.30	0	-24867.61	0.00	0.00	-0.03	0.07	-0.03
Null model	5	49766.11	144.03	0	49795.47	132.30	0	-24878.04	0.00	0.00	0.00	0.00	0.00
Beneficial Ability Only	6	49767.44	145.37	(-)	49802.67	139.50	(-)	-24877.70	0.00	0.02	0.00	0.00	0.00
Detrimental PSV Only	6	49768.12	146.04	(-)	49803.35	140.18	(-)	-24878.04	0.00	0.00	0.00	0.00	0.00
Curvilinear Ability	7	49768.32	146.25	(-)	49809.42	146.25	(-)	-24877.14	0.00	0.01	0.00	0.00	-0.01
Detrimental SE	7	49769.45	147.38	(-)	49810.54	147.38	(-)	-24877.70	0.00	0.02	0.00	0.00	0.00
Detrimental PSV and Ability	7	49770.13	148.05	(-)	49811.22	148.06	(-)	-24878.04	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $Delta_AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. $Delta_BIC$ = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Table 8: Content domain vocabulary knowledge, outcome category self-rated agentic outcomes

nicensames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Beneficial SE	7	49341.40	0.00	1	49382.50	0.00	1	-24663.68	0.39	-0.15	0.00	0.00	0.00
Interaction	8	49343.09	1.69	(-)	49390.05	7.56	(-)	-24663.52	0.39	-0.15	0.00	0.01	0.00
Full model	10	49345.92	4.52	(-)	49404.60	22.11	(-)	-24662.92	0.39	-0.14	0.01	0.00	0.01
Beneficial PSV Only	6	49400.07	58.66	0	49435.29	52.80	0	-24694.02	0.35	0.00	0.00	0.00	0.00
Curvilinear PSV	7	49402.08	60.67	(-)	49443.17	60.67	(-)	-24694.02	0.35	0.00	0.00	0.00	0.00
Beneficial PSV and Ability	7	49402.08	60.67	(-)	49443.17	60.67	(-)	-24694.02	0.35	0.00	0.00	0.00	0.00
Optimal Margin	7	49442.77	101.37	0	49483.87	101.37	0	-24714.37	0.26	-0.26	-0.01	0.02	-0.01
Self-Knowledge	6	49731.63	390.23	0	49766.86	384.36	0	-24859.80	0.00	0.00	-0.02	0.05	-0.02
Curvilinear Ability	7	49735.87	394.46	0	49776.96	394.46	0	-24860.91	0.00	-0.06	0.00	0.00	0.00
Detrimental PSV and Ability	7	49735.87	394.46	0	49776.96	394.46	0	-24860.91	0.00	-0.06	0.00	0.00	0.00
Null model	5	49740.57	399.17	0	49769.93	387.43	0	-24865.27	0.00	0.00	0.00	0.00	0.00
Beneficial Ability Only	6	49742.58	401.17	(-)	49777.80	395.31	(-)	-24865.27	0.00	0.00	0.00	0.00	0.00
Detrimental PSV Only	6	49742.58	401.17	(-)	49777.80	395.31	(-)	-24865.27	0.00	0.00	0.00	0.00	0.00
Detrimental SE	7	49744.59	403.19	(-)	49785.68	403.19	(-)	-24865.27	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $Delta_AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. $Delta_BIC$ = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Table 9: Content domain vocabulary knowledge, outcome category self-rated communal outcomes

nicenames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Beneficial SE	7	49687.94	0.00	0.636	49729.03	0.00	1	-24836.95	0.09	-0.13	0.00	0.00	0.00
Full model	10	49689.05	1.12	0.364	49747.74	18.71	0	-24834.49	0.11	-0.13	0.03	-0.00	0.00
Interaction	8	49689.86	1.93	(-)	49736.82	7.79	(-)	-24836.90	0.09	-0.12	0.00	0.00	0.00
Optimal Margin	7	49690.18	2.24	(-)	49731.27	2.24	(-)	-24838.07	0.11	-0.11	0.00	0.00	0.00
Curvilinear Ability	7	49707.36	19.43	0	49748.46	19.43	0	-24846.66	0.00	-0.10	0.00	0.00	0.00
Detrimental PSV and Ability	7	49707.36	19.43	0	49748.46	19.43	0	-24846.66	0.00	-0.10	0.00	0.00	0.00
Beneficial PSV Only	6	49724.86	36.92	0	49760.08	31.05	0	-24856.41	0.06	0.00	0.00	0.00	0.00
Curvilinear PSV	7	49726.87	38.93	(-)	49767.96	38.93	(-)	-24856.41	0.06	0.00	0.00	0.00	0.00
Beneficial PSV and Ability	7	49726.87	38.93	(-)	49767.96	38.93	(-)	-24856.41	0.06	0.00	0.00	0.00	0.00
Null model	5	49732.05	44.12	0	49761.41	32.38	0	-24861.02	0.00	0.00	0.00	0.00	0.00
Self-Knowledge	6	49734.06	46.13	(-)	49769.29	40.26	(-)	-24861.02	0.00	0.00	0.00	0.00	0.00
Beneficial Ability Only	6	49734.06	46.13	(-)	49769.29	40.26	(-)	-24861.02	0.00	0.00	0.00	0.00	0.00
Detrimental PSV Only	6	49734.06	46.13	(-)	49769.29	40.26	(-)	-24861.02	0.00	0.00	0.00	0.00	0.00
Detrimental SE	7	49736.07	48.14	(-)	49777.17	48.14	(-)	-24861.02	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $Delta_AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. $Delta_BIC$ = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.

Table 10: Content domain vocabulary knowledge, outcome category peer-rated agentic outcomes

nicenames	K	AICc	Delta_AICc	w	BIC	Delta_BIC	BICWt	LL	b1	b2	b3	b4	b5
Curvilinear PSV	7	44943.00	0.00	0.592	44984.09	5.12	0.072	-22464.48	0.15	0.00	-0.04	0.00	0.00
Beneficial PSV Only	6	44943.75	0.75	0.407	44978.97	0.00	0.928	-22465.86	0.17	0.00	0.00	0.00	0.00
Beneficial SE	7	44945.71	2.71	(-)	44986.80	7.83	(-)	-22465.83	0.17	-0.01	0.00	0.00	0.00
Beneficial PSV and Ability	7	44945.76	2.76	(-)	44986.85	7.88	(-)	-22465.86	0.17	0.00	0.00	0.00	0.00
Interaction	8	44947.72	4.72	(-)	44994.68	15.70	(-)	-22465.83	0.17	-0.01	0.00	0.00	0.00
Full model	10	44948.05	5.05	(-)	45006.73	27.76	(-)	-22463.98	0.16	-0.00	-0.04	-0.03	0.01
Optimal Margin	7	44959.05	16.05	0	45000.14	21.17	0	-22472.50	0.09	-0.09	-0.01	0.02	-0.01
Null model	5	44967.25	24.25	0	44996.61	17.64	0	-22478.61	0.00	0.00	0.00	0.00	0.00
Self-Knowledge	6	44968.27	25.28	(-)	45003.50	24.53	(-)	-22478.12	0.00	0.00	-0.01	0.03	-0.01
Beneficial Ability Only	6	44968.63	25.63	(-)	45003.85	24.88	(-)	-22478.30	0.00	0.03	0.00	0.00	0.00
Detrimental PSV Only	6	44969.26	26.26	(-)	45004.49	25.52	(-)	-22478.61	0.00	0.00	0.00	0.00	0.00
Curvilinear Ability	7	44970.64	27.64	(-)	45011.73	32.76	(-)	-22478.30	0.00	0.03	0.00	0.00	0.00
Detrimental SE	7	44970.64	27.64	(-)	45011.73	32.76	(-)	-22478.30	0.00	0.03	0.00	0.00	0.00
Detrimental PSV and Ability	7	44971.27	28.27	(-)	45012.37	33.39	(-)	-22478.61	0.00	0.00	0.00	0.00	0.00

Note. K = number of estimated parameters (including residual variance and coefficients of dummy variables that encode the samples). $AICc$ = second-order Akaike Information Criterion; $Delta_AICc$ = difference of model's $AICc$ to $AICc$ of the model with the smallest $AICc$; w = Akaike weight. $Delta_BIC$ = difference of model's BIC to BIC of the model with the smallest BIC . $BICWt$ = BIC weight. LL = maximized Log-Likelihood. Regression coefficients b_1 to b_5 refer to the polynomial model $Z = b_0 + b_1S + b_2R + b_3S^2 + b_4SR + b_5R^2$.