Table 3

Original and replication results

		Original Study			Meta-Analytic Estimate		Aggregate Estimate		Null Hypothesis Significance Tests by Sample			Null Hypothesis Significance Tests of Aggregate			
Effect	ES stat	ES	95% CI Lower, Upper	Median Replication ES	Replication ES	95% CI Lower, Upper	Replication ES	95% CI Lower, Upper	Proportion <0 (p<.05)	Proportion >0 (p<.05)	*Proportion ns*	Key statistics	df	N	p
Stroop Task	*d*	2.04	1.90, 2.18	0.89	0.91	0.84, 0.98	0.88	0.84, 0.92	0.00	1.00	0.00	t = 49.795	3336	3337	< .001
Metaphoric Restructuring	*d*	0.63	0.07, 1.20	0.19	0.29	0.17, 0.42	0.26	0.15, 0.37	0.00	0.25	0.75	$\chi2$ = 21.90	1	1335	< .001
Availability Heuristic	*d*	0.82	0.47, 1.17	0.07	0.09	0.02, 0.16	0.09	0.02, 0.16	0.00	0.14	0.86	PSdep = .522	N/A	3088	0.015
Power and Perspective	*d*	0.77	0.12, 1.41	0.03	0.03	-0.04, 0.11	0.03	-0.04, 0.10	0.00	0.05	0.95	t = .89	2967	2969	0.37
Weight Embodiment	*d*	0.59	0.01, 1.16	0.05	0.03	-0.05, 0.11	0.03	-0.06, 0.11	0.00	0.00	1.00	t = .61	2283	2285	0.543
Warmth Perceptions	*d*	0.86	0.40, 1.33	0.06	0.01	-0.08, 0.06	0.01	-0.06, 0.08	0.05	0.00	0.95	t = .22	3117	3119	0.827
Elaboration Likelihood	ηp^2	0.17	0.06, 0.29	0.000001	0.000001	0.000, 0.001	0.00005	0.000, 0.002	0.00	0.00	1.00	F = .129	1, 2361	2365	0.72
Self-Esteem and Subjective Distance	ηp^2	n/a	n/a	0.0001	0.0004	0.000, 0.005	0.001	0.000, 0.004	0.05	0.10	0.85	F = 1.98	1, 3131	3136	0.16
Credentials and Prejudice	ηp^2	0.04	0, 0.09	0.00	0.0003	0.000, 0.003	0.000	0.000, 0.000	0.00	0.10	0.90	F = .0004	1, 3130	3134	0.985
Conceptual Replication															
Persistence and Conscientiousness	*d*	1.04	0.64, 1.43	0.000	0.03	-0.04, 0.10	0.05	-0.02, 0.12	0.00	0.00	1.00	r = .027	3191	3193	0.134
Added Effects															

*Elaboration Likelihood - Main Effect	ηp^2	0.59	0.47, 0.67	0.031	0.034	0.022, 0.049	0.033	0.020, 0.048	0.00	0.45	0.55	F = 79.925	1, 2361	2365	< .001
*Self-Esteem and Subjective Distance - Main Effect	ηp^2	n/a	n/a	0.011	0.012	0.004, 0.024	0.011	0.005, 0.019	0.00	0.24	0.76	F = 7.97	1, 3131	3136	< .001
*Credentials and Prejudice - Main Effect	ηp^2	0.043	0.002, 0.103	0.005	0.005	0.001, 0.014	0.005	0.001, 0.012	0.00	0.14	0.86	F = 17.01	1, 3130	3134	<.001

Note. Weighted statistics are computed on the whole aggregated dataset; Meta-analytic statistics are computed on the disaggegated dataset (N = 20 or 21). 95% CI's for original effect sizes used cell sample sizes when available and assumed equal distribution across conditions when not available. Confidence intervals around the meta-analytic mean are based on the central normal distribution. Confidence intervals around the weighted effect size are based on non-central distributions. The Stroop effect size is taken from a meta-analysis comparing Stroop performance of young adults to older adults (Verhaeghen & De Meersman, 1998). The aggregate effect size for younger adults is reported here. *For three experiments, reliable main effects were added after observing the aggregate outcomes to have more effects to then test for variation across the academic semester. Credentials and Prejudice interaction effect size was estimated as 1.28 e-6, the weighted upper bound of the 95% CI was too small to compute with the statistical software. ηp^2's were not available for the original self-esteem and subjective distance effects. The Cohen's d estimates are 0.21 (95% CI 0.001, 0.418) and 0.39 (95% CI 0.18, 0.60) respectively.

Table 5

Order effects by task order

Effect	F (linear)	df (interaction)	df (residuals)	p-value	η_p^2	95% CI	F (quadratic)	df (interaction)	df (residuals)	p-value	η_p^2	95%
Stroop Task	1.60	1	3278	0.21	0.00049	0, 0.003	2.38	1	3278	0.12	0.00073	0, 0.
Persistence and Conscientiousness	0.02	1	3189	0.88	0.00001	0, 0.001	0.06	1	3189	0.81	0.00002	0, 0.
Power and Perspective	1.17	1	2965	0.28	0.00039	0, 0.003	0.54	1	2965	0.46	0.00018	0, 0.
Weight Embodiment	0.02	1	2066	0.88	0.00001	0, 0.002	0.00	1	2066	0.95	0.00000	0, 0.
Warmth Perceptions	0.05	1	3115	0.82	0.00002	0, 0.001	0.12	1	3115	0.72	0.00004	0, 0.
Elaboration Likelihood	0.35	1	2357	0.56	0.00015	0, 0.003	0.04	1	2357	0.84	0.00002	0, 0.
Self-Esteem and Subjective Distance	0.42	1	3127	0.52	0.00013	0, 0.002	0.60	1	3127	0.44	0.00019	0, 0.
Credentials and Prejudice	0.02	1	3126	0.90	0.00000	0, 0.001	0.08	1	3126	0.78	0.00003	0, 0.
*Elaboration Likelihood - Main Effect	2.04	1	2357	0.15	0.00087	0, 0.005	2.08	1	2357	0.15	0.00088	0, 0.
*S-E and Subjective Distance - Main Effect	0.09	1	3127	0.76	0.00003	0, 0.001	0.43	1	3127	0.51	0.00014	0, 0.
*Credentials and Prejudice - Main Effect	0.33	1	3126	0.57	0.00010	0, 0.002	0.10	1	3126	0.76	0.00003	0, 0.
Averages	0.56			0.59	0.00020		0.59			0.59	0.00020	

Binomial Outcomes	Likelihood Chi-Square (linear)	p-value	d	95% CI	Likelihood Chi-Square (quadratic)	p-value	d	95% CI
Metaphoric Restructuring	0.03	0.87	0.01	-0.10, 0.12	0.17098	0.68	0.02	-0.09, 0.14
Availability Heuristic	3.11	0.08	0.06	-0.01, 0.13	2.16960	0.14	0.05	-0.02, 0.12
Averages	1.57	0.4754	0.035		1.17030	0.41	0.04	

Table 6

Moderation of effect sizes by time of semester

Effect	Variation in Outcome by Site (R2)	Overall model fit Time of semester	p-value	Time of semester	p-value	partial eta-sq	95% CI
Stroop Task	0.6%	$\chi2(1, N = 2660) = 3.31$	0.069	$F(1, 2658) = 5.01$	0.025	0.002	0, 0.007
Metaphoric Restructuring	0.01%	$\chi2(1, N = 1332) = 4.48$	0.034	$\chi2(1, N = 1332) = .010$	0.92		
Persistence and Conscientiousness	5.0%	$\chi2(2, N = 2624) = 4.63$	0.099				
Availability Heuristic	0.01%	$\chi2(4, N = 2497) = 1.45$	0.228				
Power and Perspective	0.9%	$\chi2(2, N = 2385) = .70$	0.699				
Weight Embodiment	1.7%	$\chi2(2, N = 2279) = 3.97$	0.138				
Warmth Perceptions	22.0%	$\chi2(2, N = 2544) = 6.04$	0.049	$F(1, 1842) = 3.83$	0.051	0.002	0, 0.008
Elaboration Likelihood	1.1%	$\chi2(4, N = 2365) = 2.02$	0.732				
Self-Esteem and Subjective Distance	0.9%	$\chi2(4, N = 2562) = .54$	0.969				
Credentials and Prejudice	0.4%	$\chi2(4, N = 2571) = 4.90$	0.298				
*Elaboration Likelihood - Main Effect	1.1%	$\chi2(2, N = 2429) = .22$	0.896				
*S-E and Subjective Distance - Main Effect	0.9%	$\chi2(2, N = 2562) = .32$	0.851				
*Credentials and Prejudice - Main Effect	0.4%	$\chi2(2, N = 2642) = 2.15$	0.341				
Data Quality Indicators							
Attention Check	4%	$\chi2(1, N = 2621) = 6.75$	0.009	$r(2621) = -.08$	<.001		-.12, -.04
Reported Effort	2.5%	$\chi2(1, N = 2628) = 17.46$	<.001	$r(2626) = -.11$	<.001		-.14, -.07
Reported Attention	1.6%	$\chi2(1, N = 2630) = 11.60$	<.001	$r(2628) = -.08$	<.001		-.12, -.04
Demographics							

Age	2.6%	$\chi2(1, N = 2592) = 0.05$	0.821			
Sex	3.7%	$\chi2(1, N = 2598) = 17.57$	<.001	r(2598) = 0.12	<.001	.08, .16
Race/Ethnicity	1.7%	$\chi2(1, N = 2607) = 2.38$	0.123			
Year in College	14.2%	$\chi2(1, N = 2570) = 0.89$	0.346			
Individual Differences						
Conscientiousness	4.2%	$\chi2(1, N = 2628) = 32.11$	<.001	r(2626) = -.14	<.001	-.18, -.10
Agreeableness	<0.01%	$\chi2(1, N = 2629) = 0.005$	0.945			
Extraversion	2.2%	$\chi2(1, N = 2625) = 2.40$	0.121			
Neuroticism	1.1%	$\chi2(1, N = 2630) = 1.31$	0.252			
Openness to Experience	1.8%	$\chi2(1, N = 2631) = 0.01$	0.923			
Intrinsic Motivation	1.2%	$\chi2(1, N = 2608) = 0.14$	0.71			
Stress	1.9%	$\chi2(1, N = 2623) = 10.08$	0.001	r(2621) = .08	<.001	.04, .12
Mood	1.2%	$\chi2(1, N = 2636) = 8.03$	0.005	r(2634) = -.07	0.001	-.10, -.03
Self-Esteem	0.4%	$\chi2(1, N = 2625) = 0.56$	0.456			
Need for Cognition	1.1%	$\chi2(1, N = 2601) < 0.00005$	0.998			

Note. Variation by site indicates the amount of variation in the dependent variable attributable to location of data collection. Follow-up tests of time of semester predicting variation in the effect conducted for only those effects in which the overall model improved ($p < .07$) by adding time of semester as a factor. Two of the outcomes, sex and attention check, had binary outcomes. Changes over time in those variables are quantified by odds ratio of a given outcome on the last day of the semester compared to the first day of the semester (odds ratio estimates taken from the mixed model).