

Supplemental Material

Table S1. *Conversational Purpose Coding System (here as used in Study 3)*

	Type of conversation	Description
Mutually Exclusive - Only mark 1 of the 5 based on big picture of convo. You can leave blank even if "talk = 1"	<i>Practical</i>	Conversation is about practical everyday things. The information exchanged serves a pragmatic purpose in the participant's everyday life. Can include making plans, discussing what is for dinner, picking up kids, travel arrangements. NOT CCing people on your thoughts. e.g. "We need parmesan cheese for our dinner tonight"; "I will pick up Sally on Monday and Wednesdays at 5"
	<i>Small Talk</i>	The purpose of this interaction is completely non-instrumental. No (or very trivial) information is exchanged- everything would be the same if the conversation never happened. e.g. "how's the weather?" "I stepped on something" "What are you up to?"
	<i>Substantive Conversation</i>	Any conversation that has the purpose to exchange thoughts, information, values, ideas about a (NON-EMOTIONAL) topic; it could be about news of the day, about political issues, philosophical topics, theoretical ideas; information only. THE CONVERSATION DOES NOT REALLY HAVE TO BE "DEEP", ONLY NEEDS TO HAVE "SUBSTANCE" e.g., "Aren't Muslims not supposed to drink alcohol?"; "you heard that the WTC was attacked?"; "I found this book interesting."; "Guns n' Roses has a real rock n' roll sound to them"
	<i>Personal / Emotional Disclosure</i>	Participant is sharing his/her own personal feelings or emotions. Can include talking about their or a parent's divorce and their hopes and dreams for the future. The conversation passes a threshold of being trivial (for the participant). e.g., "I feel so shitty"; "I am scared about my grades in class"; "I have a crush on x" NOT accusatory statements, such as "It pisses me off when you talk with other women at parties." --> complaining
	<i>Gossip</i>	Conversation is about another person who is not present. Spreading rumor / reputational information about another person in their absence. IMPORTANT: DOES NOT HAVE TO BE NEGATIVE. e.g "Xxxx talked back and that's why he was fired"; "Did you hear about their break-up?"; "Frank is so silly sometimes"; "Did you hear the lead signer of Gun n' Roses is dating Xxxx?"

Table S2. *Model Fit Comparisons between Reference Model and Models Including the Moderator*

Spending time alone	<i>WAIC</i>	<i>LOOIC (SE)</i>	<i>Δ LOOIC (SE)</i>	<i>[CI₉₅]</i>
Reference model	1344.71	1344.82 (30.36)		
+ Extraversion	1346.75	1346.79 (30.34)	1.97 0.89	[0.23, 3.71]
+ Agreeableness	1343.38	1343.42 (30.13)	-1.40 3.82	[-8.89, 6.09]
+ Conscientiousness	1345.40	1345.44 (30.34)	0.62 1.98	[-3.26, 4.50]
+ Neuroticism	1346.98	1347.02 (30.41)	2.20 0.40	[1.42, 2.98]
+ Openness	1346.39	1346.43 (30.35)	1.61 1.12	[-0.59, 3.81]
Talking with others	<i>WAIC</i>	<i>LOOIC (SE)</i>	<i>Δ LOOIC (SE)</i>	<i>[CI₉₅]</i>
Reference model	1341.91	1341.93 (30.79)		
+ Extraversion	1344.10	1344.14 (30.82)	2.21 0.63	[0.98, 3.44]
+ Agreeableness	1343.54	1343.59 (30.83)	1.66 1.55	[-1.38, 4.70]
+ Conscientiousness	1342.25	1342.29 (30.58)	0.36 1.99	[-3.54, 4.26]
+ Neuroticism	1343.92	1343.97 (30.77)	2.04 0.72	[0.63, 3.45]
+ Openness	1340.24	1340.31 (30.30)	-1.62 4.23	[-9.91, 6.67]
Small talk	<i>WAIC</i>	<i>LOOIC (SE)</i>	<i>Δ LOOIC (SE)</i>	<i>[CI₉₅]</i>
Reference model	1358.45	1358.48 (29.74)		
+ Extraversion	1359.94	1359.99 (29.64)	1.51 1.08	[-0.61, 3.63]
+ Agreeableness	1360.02	1360.27 (29.65)	1.79 1.35	[-0.86, 4.44]
+ Conscientiousness	1360.09	1360.12 (29.68)	1.64 0.31	[1.03, 2.25]
+ Neuroticism	1359.47	1359.51 (29.64)	1.03 1.75	[-2.40, 4.46]
+ Openness	1359.96	1360.00 (29.72)	1.52 0.81	[-0.07, 3.11]
Small talk (normalized)	<i>WAIC</i>	<i>LOOIC (SE)</i>	<i>Δ LOOIC (SE)</i>	<i>[CI₉₅]</i>
Reference model	1362.20	1362.23 (29.85)		
+ Extraversion	1364.34	1364.40 (29.87)	2.17 1.10	[0.01, 4.33]
+ Agreeableness	1364.08	1364.17 (29.70)	1.94 1.86	[-1.71, 5.59]
+ Conscientiousness	1364.11	1364.15 (29.83)	1.92 0.33	[1.27, 2.57]
+ Neuroticism	1363.29	1363.33 (29.64)	1.10 1.91	[-2.64, 4.84]
+ Openness	1360.60	1360.64 (29.72)	-1.59 3.41	[-8.27, 5.09]
Substantive conversation	<i>WAIC</i>	<i>LOOIC (SE)</i>	<i>Δ LOOIC (SE)</i>	<i>[CI₉₅]</i>
Reference model	1342.79	1342.82 (29.69)		
+ Extraversion	1344.69	1344.74 (29.53)	1.92 1.04	[-0.12, 3.96]
+ Agreeableness	1341.50	1341.54 (29.64)	-1.28 3.10	[-7.36, 4.80]
+ Conscientiousness	1344.10	1344.14 (29.61)	1.32 1.18	[-0.99, 3.63]
+ Neuroticism	1344.48	1344.52 (29.69)	1.70 0.72	[0.29, 3.11]
+ Openness	1344.26	1344.31 (29.60)	1.49 1.50	[-1.45, 4.43]
Substantive conversation (norm.)	<i>WAIC</i>	<i>LOOIC (SE)</i>	<i>Δ LOOIC (SE)</i>	<i>[CI₉₅]</i>
Reference model	1356.03	1355.99 (29.62)		
+ Extraversion	1357.90	1357.95 (29.45)	1.96 1.36	[-0.71, 4.63]
+ Agreeableness	1356.95	1356.99 (29.75)	1.00 2.18	[-3.27, 5.27]
+ Conscientiousness	1357.76	1357.80 (29.58)	1.81 0.37	[1.08, 2.54]
+ Neuroticism	1358.10	1358.14 (29.63)	2.15 0.56	[1.05, 3.25]
+ Openness	1357.82	1357.86 (29.58)	1.87 0.24	[1.40, 2.34]

Note. Pooled data from *Study 1*, *Study 2a*, *Study 3* and *Study 4* were used. Models with the moderator included (one at a time) were tested against the reference model; lower WAICs and LOOICs denote better

model fit; Δ LOOIC = estimated difference of expected leave-one-out prediction errors and its confidence interval [CI₉₅].

Table S3. *Posterior Bayesian Point Estimates and Credibility Intervals for Interaction Terms in Correlation Metric (Moderation Analyses)*

Spending time alone	<i>PBPE</i>	<i>[CI₉₅]</i>
+ Extraversion	-0.02	[-0.09, 0.06]
+ Agreeableness	-0.07	[-0.15, 0.01]
+ Conscientiousness	-0.04	[-0.12, 0.04]
+ Neuroticism	-0.01	[-0.08, 0.07]
+ Openness	0.02	[-0.05, 0.10]
Talking with others	<i>PBPE</i>	<i>[CI₉₅]</i>
+ Extraversion	0.01	[-0.07, 0.09]
+ Agreeableness	0.03	[-0.05, 0.10]
+ Conscientiousness	0.04	[-0.03, 0.12]
+ Neuroticism	0.01	[-0.06, 0.09]
+ Openness	-0.08	[-0.15, 0.00]
Small talk	<i>PBPE</i>	<i>[CI₉₅]</i>
+ Extraversion	0.02	[-0.06, 0.11]
+ Agreeableness	0.02	[-0.05, 0.10]
+ Conscientiousness	0.00	[-0.07, 0.08]
+ Neuroticism	-0.04	[-0.12, 0.04]
+ Openness	0.02	[-0.06, 0.10]
Small talk (normalized)	<i>PBPE</i>	<i>[CI₉₅]</i>
+ Extraversion	0.02	[-0.06, 0.10]
+ Agreeableness	0.03	[-0.05, 0.11]
+ Conscientiousness	0.00	[-0.08, 0.08]
+ Neuroticism	-0.04	[-0.12, 0.04]
+ Openness	0.07	[0.00, 0.15]
Substantive conversation	<i>PBPE</i>	<i>[CI₉₅]</i>
+ Extraversion	0.03	[-0.11, 0.17]
+ Agreeableness	0.14	[-0.02, 0.29]
+ Conscientiousness	0.05	[-0.10, 0.20]
+ Neuroticism	-0.03	[-0.18, 0.12]
+ Openness	-0.05	[-0.20, 0.10]
Substantive conversation (normalized)	<i>PBPE</i>	<i>[CI₉₅]</i>
+ Extraversion	0.03	[-0.05, 0.10]
+ Agreeableness	0.04	[-0.03, 0.12]
+ Conscientiousness	0.01	[-0.07, 0.08]
+ Neuroticism	-0.01	[-0.09, 0.07]
+ Openness	0.00	[-0.08, 0.08]

Note. Pooled data from *Study 1*, *Study 2a*, *Study 3* and *Study 4* were used. Models included one moderator at a time.