

Meta-Analyses: Proportion of Variance in Social Media Use Explained by Personality Factors

NOTE: The tables below show the results of four large meta-analyses. Remember that a meta-analysis is the highest level of empirical evidence. Because meta-analyses pool results across many individual studies, meta-analyses are more reliable and stable than individual studies.

Each of the tables below reports the proportion of variance in a social media activity accounted for by a personality factor. For example, if a table lists the Personality Factor of Openness and the table shows 0% for Hours per Day on Social Media, that means that 0% of the variability in how many hours per day that people spend on social media can be accounted for by a people's openness. Anything less than about 7% or 8% is very small and not very meaningful.

Akbari et al. (2023)

425 independent samples and 39,930 participants

Personality Factor	Hours per Day on Social Media
Openness	0%
Conscientiousness	0%
Extraversion	1%
Agreeableness	0%
Neuroticism	1%

Personality Factor	Hours per Week on Social Media
Openness	0%
Conscientiousness	0%
Extraversion	1%
Agreeableness	0%
Neuroticism	1%

Personality Factor	Problematic Use of Social Media
Openness	0%
Conscientiousness	2%
Extraversion	0%
Agreeableness	0%
Neuroticism	3%

Huang (2019)

67 independent samples and 22,899 participants

Personality Factor	Amount of Social Media Use
Openness	0%
Conscientiousness	0%
Extraversion	1%
Agreeableness	0%
Neuroticism	1%

Joshi et al. (2023)

48 independent samples and ~ 20,000 participants

Personality Factor	Amount of Social Media Use
Openness	3%
Conscientiousness	0%
Extraversion	0%
Agreeableness	0%
Neuroticism	0%

Marino et al. (2018)

~ 12 independent samples and ~ 7,000 participants

Personality Factor	Problematic Social Media Use
Openness	0%
Conscientiousness	3%
Extraversion	0%
Agreeableness	0%
Neuroticism	5%
Time Spent Online	10%
Time Spent on Social Media	12%

References

- Akbari, M., Seydavi, M., Jamshidi, S., Marino, C., & Spada, M. M. (2024). The Big-five personality traits and their link to problematic and compensatory Facebook use: A systematic review and meta-analysis. *Addictive Behaviors*, 139, 107603. <https://doi.org/10.1016/j.addbeh.2022.107603>
- Huang, C. (2019). Social network site use and Big Five personality traits: A meta-analysis. *Computers in Human Behavior*, 97, 280-290. <https://doi.org/10.1016/j.chb.2019.03.009>
- Joshi, A., Das, S., & Sekar, S. (2023). How Big Five personality traits affect information and communication technology use: A meta-analysis. *Australasian Journal of Information Systems*, 27. <https://doi.org/10.3127/ajis.v27i0.3985>
- Marino, C., Gini, G., Vieno, A., M. Spada, M. M. (2018). A comprehensive meta-analysis on problematic Facebook use. *Computers in Human Behavior*, 83, 262-277. <https://doi.org/10.1016/j.chb.2018.02.009>