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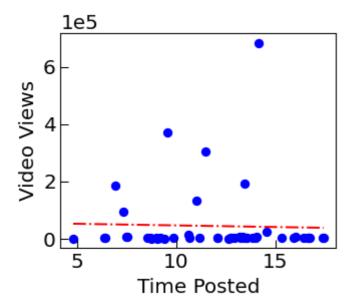
Supplement of

Exploring TikTok as a promising platform for geoscience communication

Emily E. Zawacki et al.

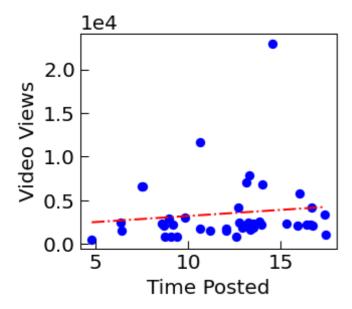
Correspondence to: Emily E. Zawacki (eezawack@asu.edu)

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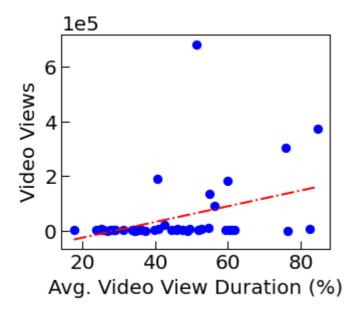
R = 0.0302 $R^2 = 0.000914$ P-value = 0.838

S1. Correlation between the number of video views received and the time a video is posted (24-hour time used, posting at Mountain Standard Time (UTC-7)). There is no observed relationship, and the correlation is not statistically significant (p > 0.05).



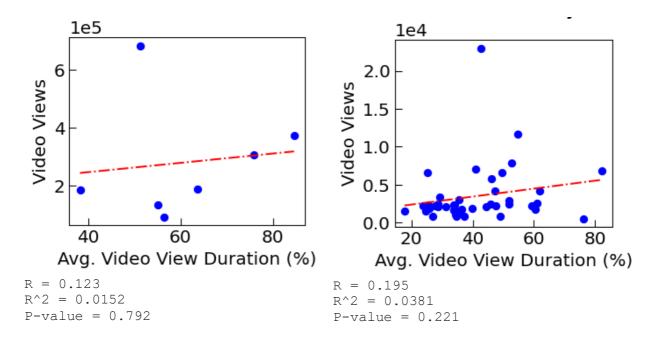
R = 0.119 $R^2 = 0.0142$ P-value = 0.457

S2. Correlation between the number of video views received and the time a video is posted (24-hour time used, posting at Mountain Standard Time (UTC-7)), excluding videos with >90,000 views. 24 hour time used. The correlation is not statistically significant (p > 0.05).

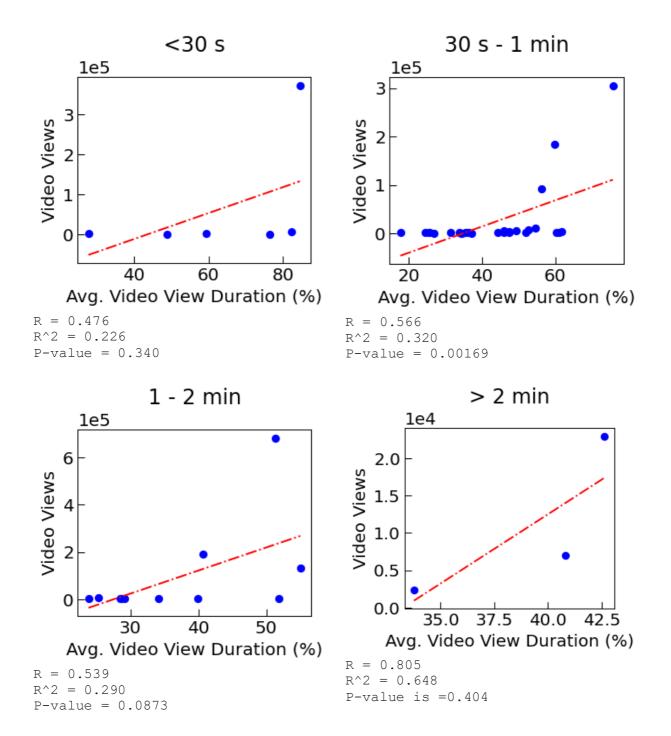


R = 0.375 $R^2 = 0.141$ P-value = 0.00855

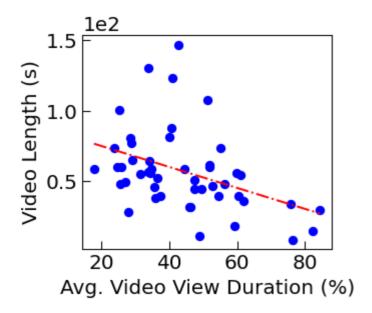
S3. Correlation between the average video view duration (%) and the number of video views. There is an overall weak positive correlation that is statistically significant.



S4. Correlation between the average video view duration (%) and the number of video views for videos with >90,000 views (left) and <90,000 views (right). Neither correlation is statistically significant (p > 0.05).

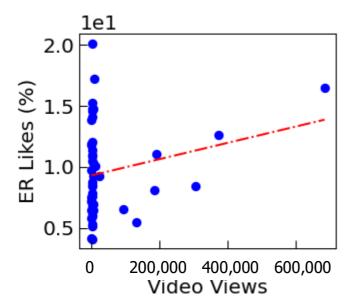


S5. Correlation between the number of video views and the average video view duration (%) for videos that are < 30s, 30 s - 1 min, 1 min - 2 min, and > 2 min. Only videos that are 30 s - 1 min in duration show a moderately positive statistically significant correlation.



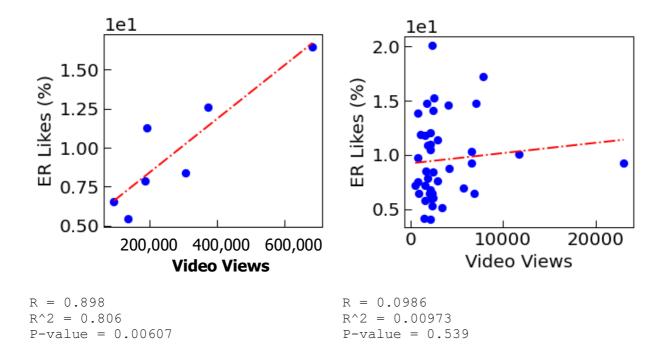
R = -0.409 $R^2 = 0.168$ P-value = 0.00382

S6. Correlation between the average video view duration (%) and the length of a video (s). There is a statistically significant negative correlation.

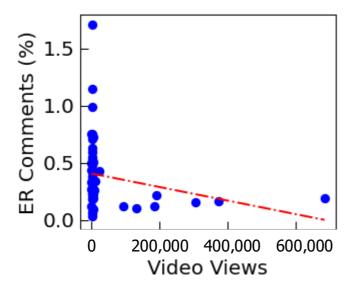


R = 0.220 $R^2 = 0.0485$ P-value = 0.133

S7. Correlation between the number of video views and the engagement rate of likes for a video. The correlation is not statistically significant (p > 0.05).

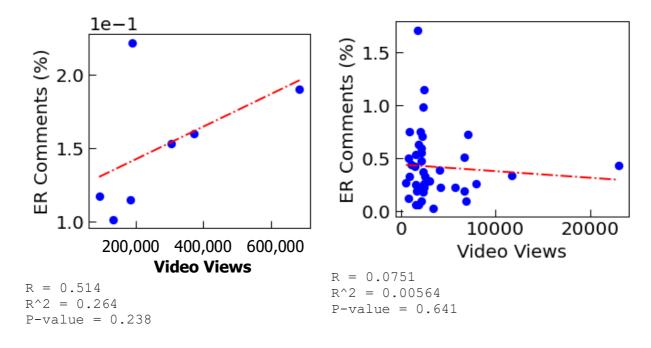


S8. Correlation between the number of video views and the engagement rate of likes for a video with >90,000 views (left) and <90,000 views (right). There is a strong positive correlation that is statistically significant between video views and the engagement rate of likes for videos with >90,000 views. There is no statistically significant correlation for videos with <90,000 views.

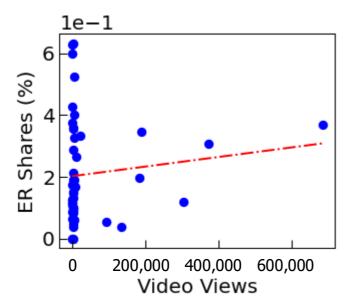


R = 0.231 $R^2 = 0.0534$ P-value = 0.114

S9. Correlation between the number of video views and the engagement rate of comments. The correlation is not statistically significant (p > 0.05).

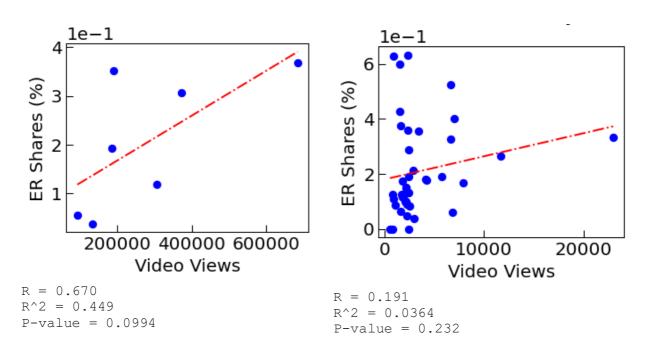


S10. Correlation between the number of video views and the engagement rate of comments for videos with >90,000 views (left) and videos with <90,000 views. The correlation is not statistically significant (p > 0.05).

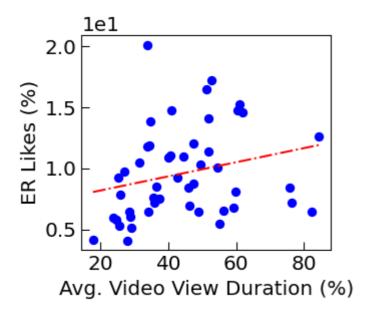


R = 0.115 $R^2 = 0.0132$ P-value = 0.434

S11. Correlation between the number of video views and the engagement rate of shares. The correlation is not statistically significant (p > 0.05).

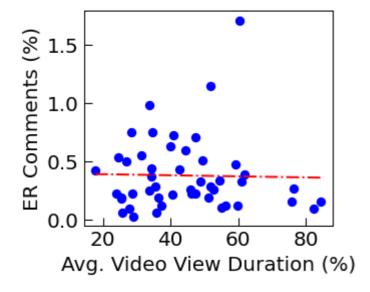


S12. Correlation between the number of video views and the engagement rate of shares for videos with >90,000 views (left) and <90,000 views (right). The correlation is not statistically significant (p > 0.05).



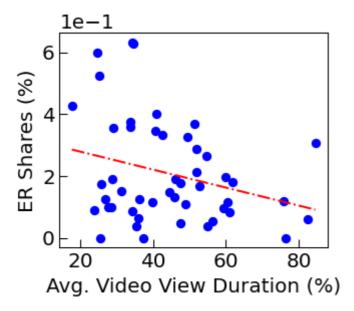
R = 0.247 $R^2 = 0.0611$ P-value = 0.0902

S13. Correlation between the average video view duration (%) and the engagement rate of likes. The correlation is not statistically significant (p > 0.05).



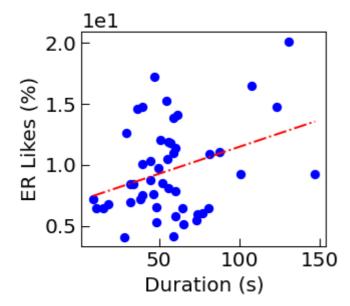
R = 0.0233 $R^2 = 0.000545$ P-value = 0.875

S14. Correlation between the average video view duration (%) and the engagement rate of comments. The correlation is not statistically significant (p > 0.05).



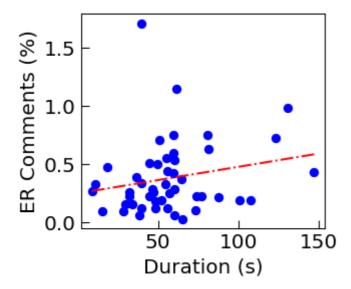
R = 0.280 $R^2 = 0.0785$ P-value = 0.0538

S15. Correlation between the average video view duration (%) and the engagement rate of shares. The correlation is not statistically significant (p > 0.05).



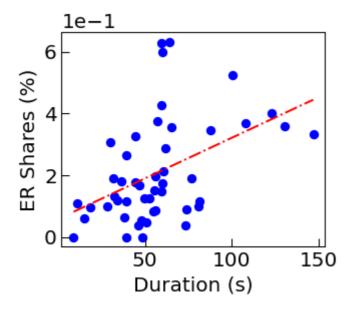
R = 0.344 $R^2 = 0.118$ P-value = 0.0170

S16. Correlation between the engagement rate of likes (%) and the duration of a video (s). There is a weak positive correlation that is statistically significant (p < 0.05).



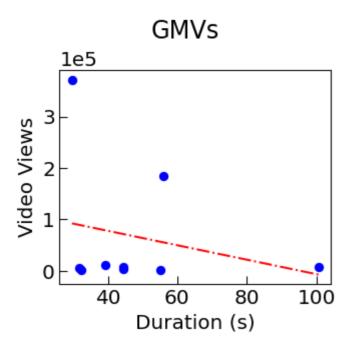
R = 0.209 R^2 = 0.0437 P-value = 0.154

S17. Correlation between the engagement rate of comments (%) and the duration of a video (s). The correlation is not statistically significant (p > 0.05).



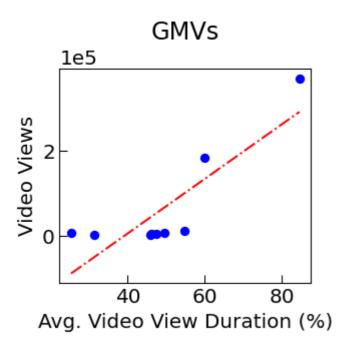
R = 0.457 $R^2 = 0.209$ P-value = 0.00108

S18. Correlation between the engagement rate of shares (%) and the duration of a video (s). There is a weak to moderate positive relationship that is statistically significant (p < 0.05).



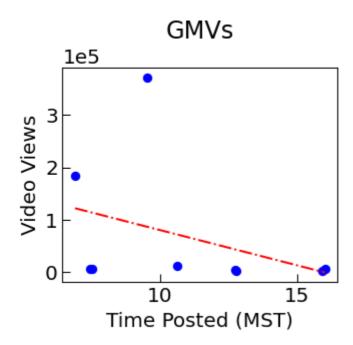
R = -0.238 $R^2 = 0.0567$ P-value = 0.537

S19. GMV videos: Correlation between the video length/duration and the number of video views for the GMV videos. There is no statistically significant correlation.



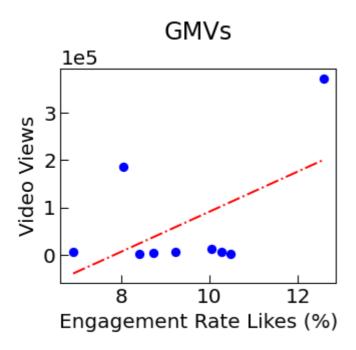
R = 0.847 $R^2 = 0.717$ P-value = 0.00398

S20. Correlation between the video view duration and the number of video views for the GMV videos. There is a strong positive correlation that is statistically significant.



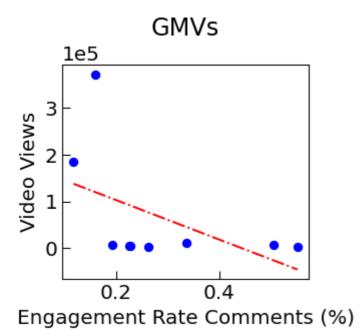
R = -0.36708096023244136 $R^2 = 0.134748431365171$ P-value =0.312

S21. Correlation between the time a video was posted (24 hour time, Mountain Standard Time MST) and the number of video views for the GMV videos. There is a weak negative correlation that is not statistically significant.



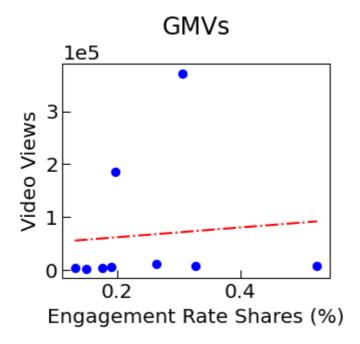
R = .5411468509829077 $R^2 = 0.2928399143287176$ P-value = 0.132

S22. Correlation between the engagement rate of likes and the number of video views for the GMV videos. There is a moderately positive relationship that is not statistically significant.



R = -0.495 $R^2 = 0.245$ P-value = 0.176

S23. Correlation between the engagement rate of comments and the number of video views for the GMV videos. There is a weak negative relationship that is not statistically significant.



R = 0.0880 $R^2 = 0.00775$ P-value = 0.822

S24. Correlation between the engagement rate of shares and the number of video views for the GMV videos. There is a no statistically significant correlation.