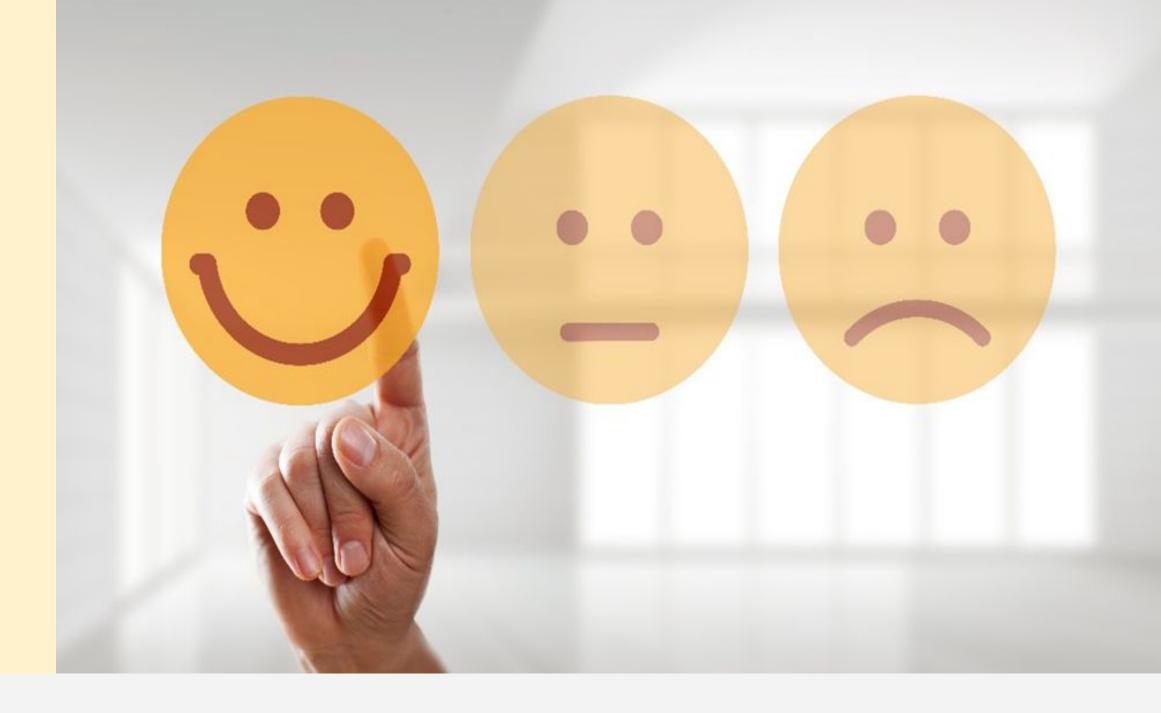
TikTok, WhatsApp, Instagram, YouTube, and Snapchat Usage and Adolescent Well-being: Evidence from Appnomes and EMAs



INTRO & OBJECTIVES

The (bi)-directional relationship between social media use and adolescent well-being remains debated. The current study:

- Introduced the Appnome a new objective social media data collection and analysis approach – to to map individual app usages
- Conducted <u>between- and within-person level</u> analyses through intensive longitudinal data to study the dynamics of app usage and adolescent well-being

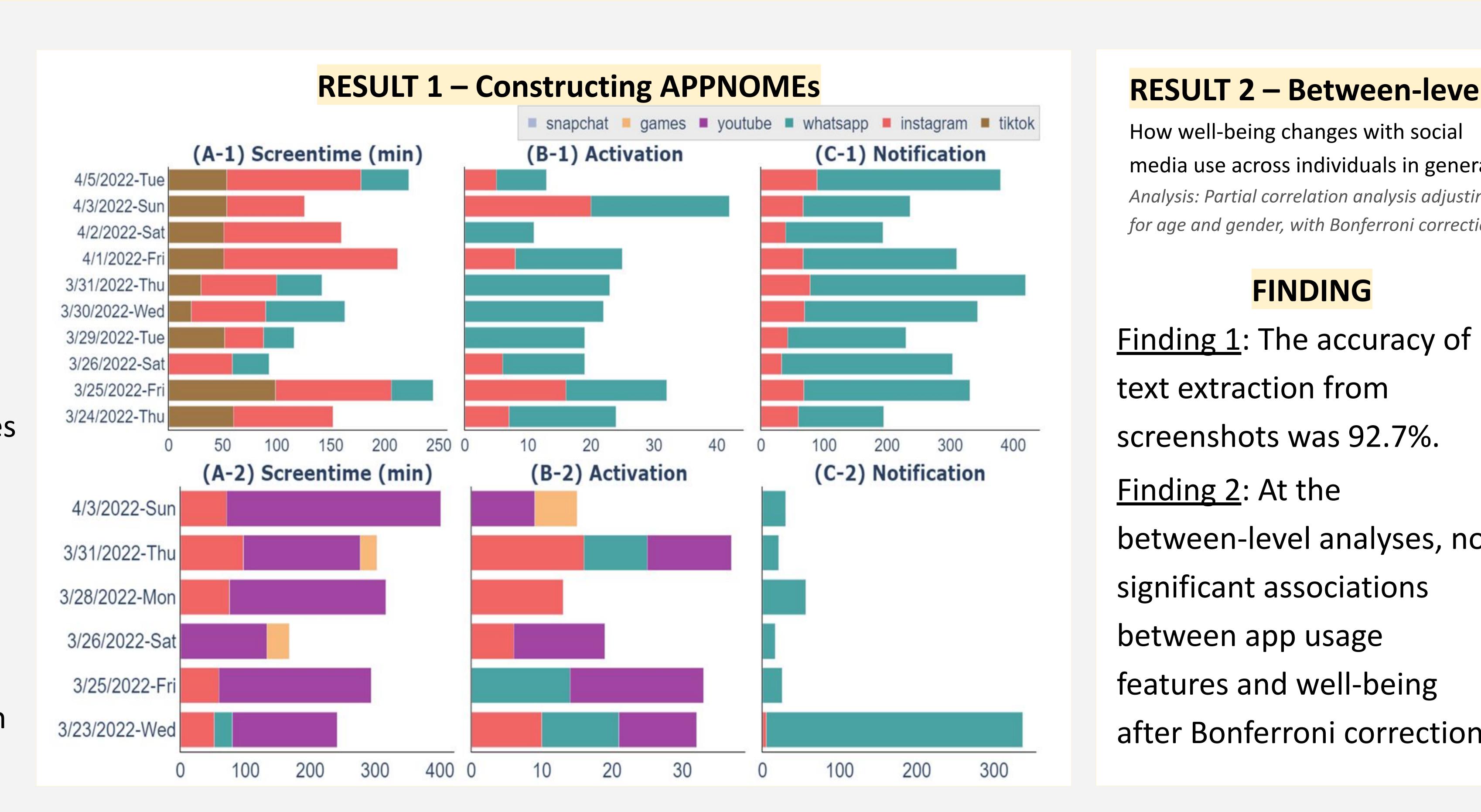
DATA COLLECTION & METHOD

Ecological momentary assessments (EMAs) with 374 Swiss adolescents (Mean age= 15.71; SD age= .82; with 62.8% female) from four high schools over 14 days.

Outcomes: hedonic and eudaimonic well-being Variables: user-donated screenshots from setting page



Applying Tesseract OCR, we developed a pipeline to read text from image. I.e., from (B) \rightarrow 238 total unlocks, 56 from WhatsApp, 47 from Instagram, and 32 from Spotify

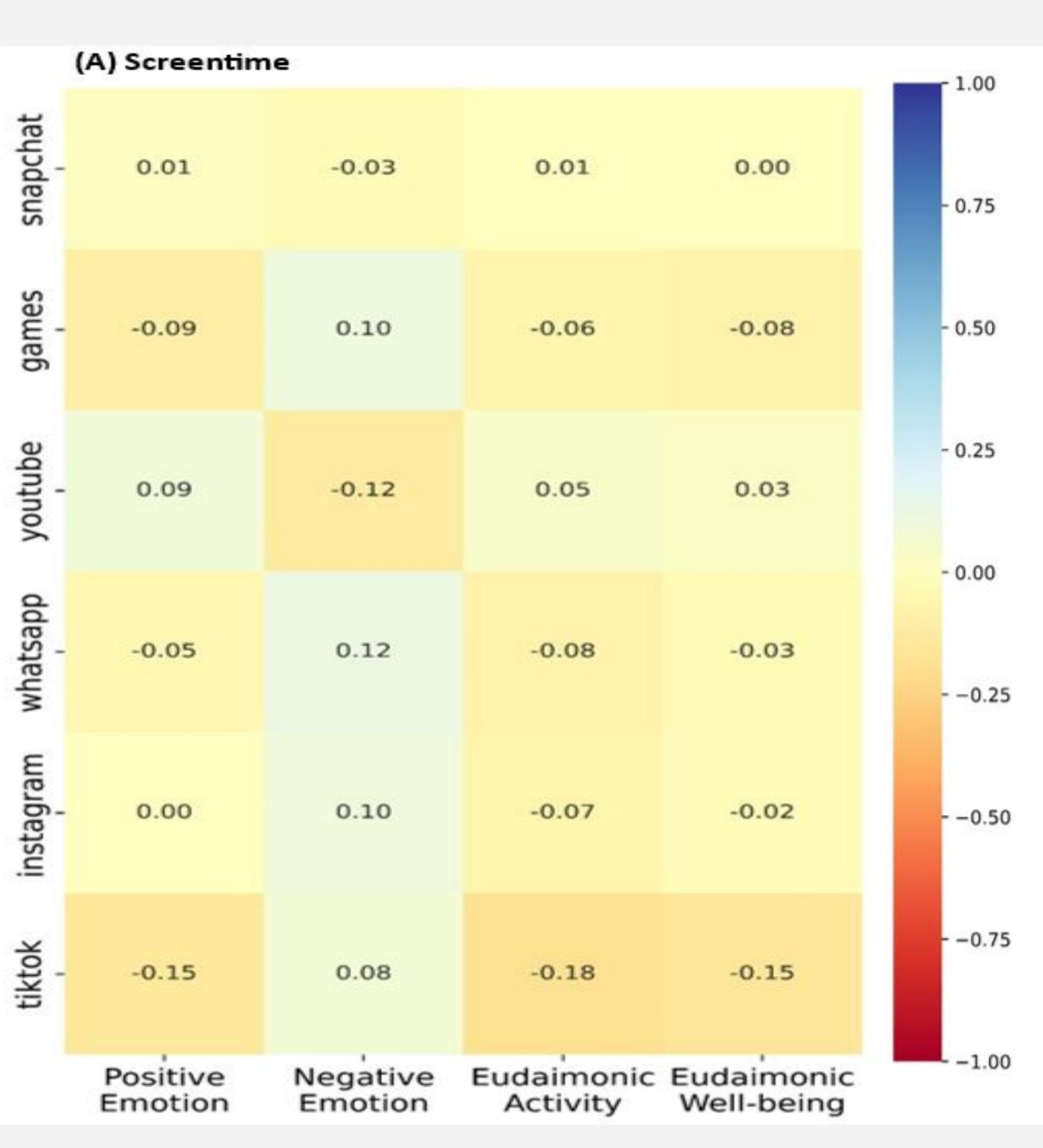


RESULT 2 – Between-level

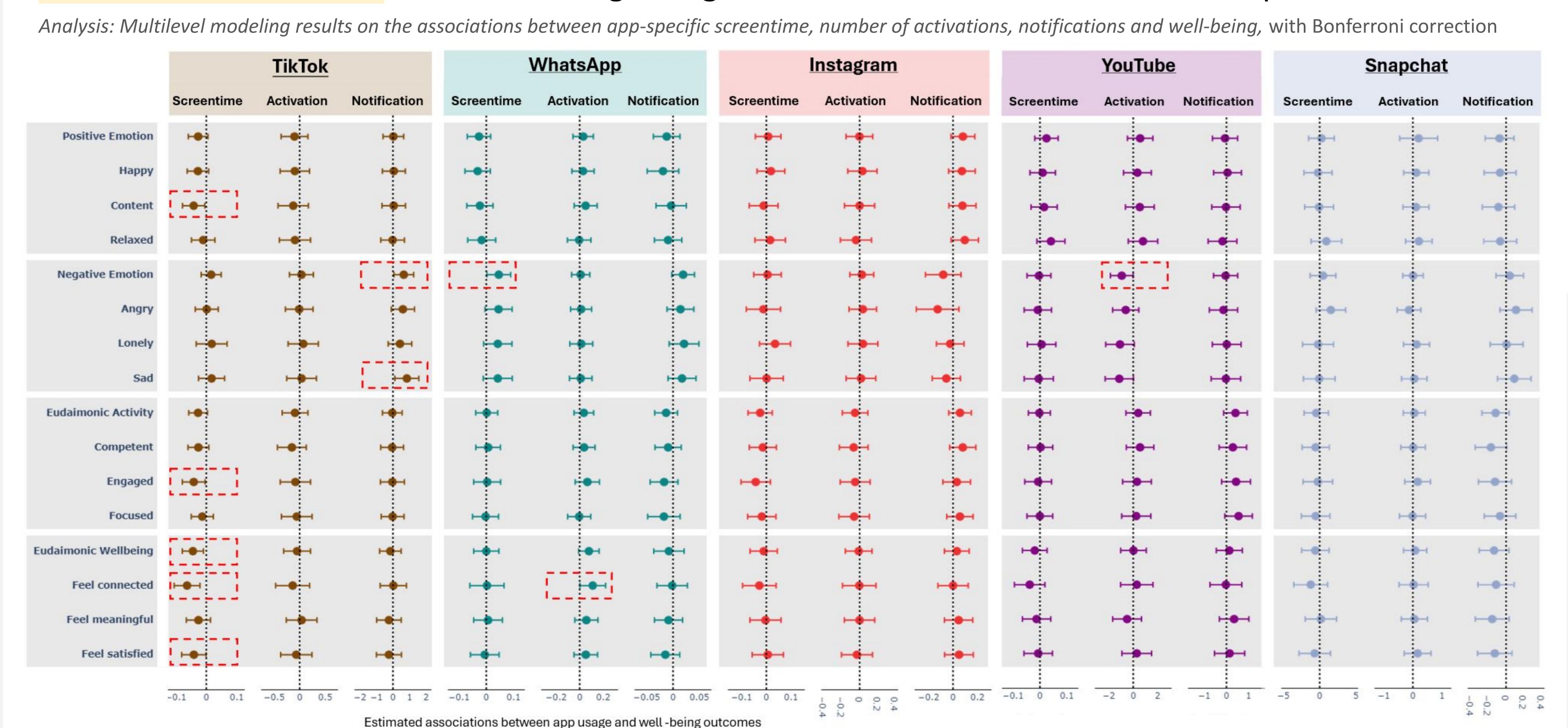
How well-being changes with social media use across individuals in general Analysis: Partial correlation analysis adjusting for age and gender, with Bonferroni correction

FINDING

text extraction from screenshots was 92.7%. Finding 2: At the between-level analyses, no significant associations between app usage features and well-being after Bonferroni correction.



RESULT 3 – Within-level: How well-being changes with social media use for the same person over time



Finding 3: At the within-level, longer TikTok screentime is related to lower eudaimonic well-being ($\beta = -.04*$) on the same day but higher positive emotion ($\beta = -.04*$) next day; YouTube unlocks were associated with lower negative emotions (β =-.94*) on the same day.

IMPLICATIONS

Implication 1: Our finding challenge the prevalent moral panic about social media's detrimental impact on teen well-being Implication 2: future research should continue exploring the mechanisms of social media use and well-being (by content-level data).



