Is Impression Management Through Status Updates Successful? Meta-Accuracy and Judgment Accuracy of Big Five Personality Traits Based on Status Updates From Social Network Sites in China

Ting Wu and Yong Zheng*

Key Laboratory of Cognition and Personality (Ministry of Education), Southwest University, Chongqing, China

Status updates on social network sites (SNSs) as a new medium for people to express “what is on your mind” on the Internet can provide much information. In the current study, we statistically analyzed survey data to examine whether individuals utilize impression management in their status updates on SNSs, whether their attempts at impression management are successful, and whether users who post these status updates can infer how others view them based on these contents, whether the status updates posted on SNSs reflect information about users’ Big Five personality traits. The findings suggested that the meta-perception and perceivers’ judgments of all five traits are quite accurate, despite users’ aim to create different impression of most traits in their status updates. This study offers new empirical evidence about the model of interpersonal perception on SNSs and shows that status updates on SNSs can provide considerable information about their authors.

Keywords: status updates, personality judgment, impression management, meta-accuracy, judgment accuracy

INTRODUCTION

WeChat (weixin or 微信 in Chinese) and Tencent QQ (also known as QQ) are two of the most popular social network sites (SNSs) among the younger generation in China (Tencent, 2017). Moments (Circle of Friends or 朋友圈 in Chinese) and Zone (空间 in Chinese) are the main functions of WeChat and Tencent QQ, respectively, both platforms enable users to post status updates.

Status updates are a method for individuals to express “what is on your mind” on the Internet, including the events of their daily life; emotional states, or views on a certain topic, or to share music, movies, or articles that they appreciate. These messages are presented to their online friends and can be “liked” and commented on; thus, status updates are a new form of “one-to-many communication” (Deters and Mehl, 2013) that has become increasingly prevalent worldwide.

Prior research in different national contexts has demonstrated strong associations between personality traits and status updates on one’s Facebook; for instance, narcissism was an important predictor of the frequency of status updates, and perceived self-efficacy was negatively related to the appropriateness of postings (Winter et al., 2014). Relative to introverts, extraverts more frequently
update their status, click to share, react to others’ “likes” and comments (Lee et al., 2014), and post updates about their social activities and everyday life more frequently on Facebook; people with higher levels of openness are more likely to post updates about intellectual topics, whereas people with high conscientiousness are more likely to post updates about children, and people who are low in self-esteem are more likely to post updates related to their romantic partners (Marshall et al., 2015). However, prior research has mainly focused on the connection between Facebook and users’ personality. People in Mainland China cannot use Facebook; instead, they use WeChat and QQ. There are some differences between these platforms; for example, in WeChat Moments, if two of your friends are not friends with each other, they can never view each other’s comments on your status updates, and therefore, to some extent, WeChat Moments might be considered more private. QQ Zone has also now added this setting. Given this privacy feature, users might feel free to present themselves more realistically in their status updates. However, these platforms also have many similarities, such as status updates, these platforms allow users to post and enable their friends to comment and “like”; these basic functions are common to the platforms. Although Chinese people cannot use Facebook, they can present themselves via their local SNS platforms—WeChat and QQ. Therefore, we believe that previous research on Facebook can also be extended to a Chinese setting.

Considerable previous research has mainly focused on the connections between status updates and personality traits, particularly on Facebook. In contrast, few researchers have explored impression management in status updates and the meta-perception of posters and personality judgment of perceivers based on this content, especially in the Chinese cultural context. The goal of this paper is to (1) examine whether participants aim to make a certain impression regarding their Big Five personality traits in their status updates and whether these impression management attempts are successful, (2) detect whether participants who post status updates can accurately infer how others judge their Big Five personality traits based on these posts, and (3) investigate whether observers can judge participants’ Big Five personality traits based on the content of their status updates.

**Theoretical Background**

According to Gosling et al. (2002) model, the mechanisms linking individuals to the inhabitable environment can be categorized into the following: identity claims and behavioral residue. Further, Vazire and Gosling (2004) state that this can be extended to the virtual environment. Identity claims are those symbolic statements derived from individuals about how they wish to be perceived; these statements can either be used to convey information to others or be directed at individuals themselves. Behavioral residue refers to the physical traces of a person’s behaviors that are left behind unintentionally (Gosling et al., 2002; Vazire and Gosling, 2004). In a virtual environment, users’ identity claims may be more salient. Owing to the unique affordances of status updates, users may have plenty of opportunities to edit the language of their status updates and carefully choose content to make certain statements about themselves or convey messages to viewers; status updates can thus be regarded as a distinctive type of identity claim in the virtual environment. Exploring the model of interpersonal perception via status updates on SNSs can further enhance our comprehension of the users’ own and others’ perception of the Big Five personality traits through users’ status updates.

**Impression Management and Self-Presentation in an Online Context**

Humans desire to be perceived positively; therefore, they frequently engage in impression management. Impression management is the process by which people control the impressions others form of them (Goffman, 1959; Kowalski and Leary, 1990). Further, many studies also suggest that one of the most important motives for people in an online context is self-expression and impression management (Krämer and Winter, 2008). One popular way for people to manage impressions is by posting photographs on the Internet to display their physical appearance. When users post their photos on a dating website or a professional-networking site, they tend to use relative physical position to manage impressions. For example, women tended to take and display photographs portraying themselves in a relatively low physical position to emphasize youthfulness and attractiveness, whereas men were more likely to take and display photographs portraying themselves in a relatively high physical position to highlight their physical size and dominance (Makhanova et al., 2017). For portraits on LinkedIn (a professional network), gender-related self-expression encourages users to display portraits that highlight their uniqueness and attractiveness (Tifferet and Vilnai–Yavetz, 2018). Pounders et al. (2016) also demonstrated that users who posted selfies were motivated to express happiness and physical appearance. As for impression management of personality traits in an online context, a study by Vazire and Gosling (2004) showed that non-acquainted perceivers’ impressions of extraversion and agreeableness were enhanced based on users’ personal websites. Stopfer et al. (2014) also revealed that unique impression management indeed exists in users’ online social networks (OSNs) profiles for attractiveness-related self-esteem and need for popularity, and researchers further demonstrated that thin slices of OSN profiles, such as interest fields, can yield a stronger effect of unique impression management for global self-esteem. Relative to elders, young adults and teenagers tend to gain more popularity and better reach a comfortable level of recognition and connectedness by shaping their online identities (Dijck, 2015).

The hyperpersonal model (Walther, 1996) posits that in computer-mediated-communication (CMC) there are many opportunities for selective self-presentation and idealization. Due to reduced communication cues and potentially asynchronous communication in CMC, users may have more opportunities to control impressions of them. A few studies have explored impression management by status updates from SNSs. According to the quality of identity claims, individuals may make some statements about how they wish to be perceived. Status updates, as one type of identity claim, may thus also be associated with users’ desire to manage impressions. These frameworks offer us an approach to understanding impression management in...
Photographs of someone's shoes (Gillath et al., 2012), information (Hirschmüller et al., 2017), and other incidental cues such as Vetter, 2016), video clips of someone introducing themselves covering major life domains (Borkenau et al., 2016), photos subtle cues, such as a person's natural stream-of-consciousness ability to accurately judge others' personality traits based on observers on personality impressions according to a series of cues and sensitivity, which refers to perceivers' ability to distinguish differences across cues. This model serves as a base for us to understand the association between status updates, personality traits, and interpersonal perception.

Accordingly, we propose that targets’ status updates can provide rich information to perceivers about their Big Five personality traits, and that perceivers are capable of making judgments about targets.

MATERIALS AND METHODS

Participants

We recruited 131 young adults from the Southwest University of China as targets; 30 participants were male, and all participants were 18 to 25 years old (M = 20.65, SD = 1.70). Some participants were excluded as they had less than 20 status updates posted on WeChat and QQ; thus, 123 of these “target” participants were ultimately included.

In the personality judgment phase, we recruited 120 students from Southwest University of China as perceivers; 34 were male, and all were 18 to 25 years old. We recruited perceivers through online messages and provided them with a list of target names. They were asked whether they knew the targets before they came to the laboratory.

Thus, we had two groups of users: one regarded as targets, who needed to provide their own status updates as judgment materials, and one group of perceivers, whose mission
was to evaluate the personality traits of targets based on those status updates.

This study was approved by the Ethics Committee of Southwest University of China. All 251 participants provided online consent both prior to participation and after debriefing and were informed that their participation was completely voluntary and that they could withdraw from the study any time.

### Measures

#### The Big Five

Targets rated their own personality using the Chinese version of the 44-item Big Five Personality Inventory (BFI-44; John et al., 1991), which measures extraversion, agreeableness, conscientiousness, neuroticism, and openness on a scale ranging from 1 (disagree strongly) to 5 (agree strongly). The Cronbach’s α in our sample for extraversion, agreeableness, conscientiousness, neuroticism, and openness were 0.85, 0.66, 0.79, 0.78, and 0.78, respectively.

The perceivers reported the personality traits of targets by completing a modified version of the BFI-44 after they observed the stimulus from targets (Stopfer et al., 2014).

#### Meta-Perception

Targets used another modified version of the BFI-44 to rate meta-perception. They were instructed as follows: “Please infer how other people will judge you when they come across your status updates.” Example items included “When other people come across my status updates, they will consider me to be someone who is energetic” (extraversion) and “When other people come across my status updates, they will consider me to be someone who gets nervous easily” (neuroticism).

#### Desired Impression of Personality Traits

Desired impression of Big Five personality traits was measured via another modified version of BFI-44. We asked targets to “imagine to how you wish to be judged when others come across your status updates.” Example items include “I wish others to consider me to be someone who is energetic when they come across my status updates” (extraversion) and “I wish others to consider me to be someone who gets nervous easily when they come across my status updates” (neuroticism).

### Procedure

The outline of the current study is as follows: one set of users, as targets, provided their status updates as judgment materials and submitted their self-report on the Big Five personality traits, and after 1 week, we collected their meta-perceptions and desired impressions via an online survey; another group of users, as perceivers, made personality judgments on the targets after observing their status updates.

#### Phase 1: materials and collection of self-reported personality data

Participants presented to the laboratory and took screenshots of their last 20 status updates from WeChat and QQ (most commonly used). These stimuli would be judged by perceivers in Phase 3. During this visit, we also collected their self-reports on the Big Five personality traits.

#### Phase 2: meta-perception data collection

To avoid confusion between self-view, meta-perception, and the targets’ desired impression of the Big Five personality traits, we did not collect the meta-perception or desired impression of Big Five personality traits in Phase 1; instead, after 1 week, we invited the participants from phase 1 to complete an online survey of meta-perception and desired impression via the popular Chinese professional survey website Wenjuanxing (a website similar to SurveyMonkey). Because some targets at Phase 1 were unwilling to provide data for the second time, we only collected 120 participants’ meta-perception and desired impression of their Big Five personality traits.

#### Phase 3: personality judgments

Before Phase 3, we edited the screenshots of the target participants to only include the main contents of the status updates and removed other information such as avatars, users’ names, time of status updates, likes and comments, and other interaction with friends. We attempted to maintain naturalistic quality of materials to provide perceivers with more natural situations. There were 123 targets, each of whom provided 20 status updates from WeChat and QQ; therefore, in total, we had 2460 status updates. We then randomly divided the 123 targets into eight groups, with each group containing 14–16 targets, and it suggested that each group contained 280–300 status updates. Next, we randomly divided perceivers into eight groups with 14–16 perceivers in each group. We randomly matched one group of targets with one group of perceivers; thus, each target was judged by 14–16 perceivers.

Perceivers arrived at the laboratory and sat in front of a computer. They were instructed to observe all 20 status updates for one target before making judgments. There were no time restrictions for making the judgment.

### RESULTS

#### The Desire to Make a Specific Impression in One’s Status Updates

Since not all variables are normally distributed, the non-parametric tests are adopted in this study. To assess whether targets aimed to make a good impression in their status updates, we first performed a Wilcoxon signed-rank test and compared targets’ desired impression and self-view of personality traits (Table 1). The results showed that targets’ desired conscientiousness, neuroticism, and openness were significantly higher than their self-view of these traits. Their agreeableness was significantly lower than their desired impression, whereas desired impression of extraversion did not significantly differ from their self-view. In addition, if the targets did attempt impression management, it seemed that they might subjectively think that others perceive them as they wished to be perceived. Therefore, we calculated the correlations between their meta-perceptions and desired impressions. The results showed that their meta-perceptions were significantly correlated with their...
desired impressions for conscientiousness \((r = 0.35, p < 0.001)\) and openness \((r = 0.74, p < 0.001)\), whereas their meta-perception of extraversion \((r = 0.16, p = 0.09)\), agreeableness \((r = 0.11, p = 0.25)\), and neuroticism \((r = 0.05, p = 0.59)\) did not significantly correlate with their desired impressions.

### The Accuracy of Meta-Perception

Meta-accuracy was measured by correlating perceivers' ratings and targets' meta-perception. Back et al. (2010) stated that using aggregate perceivers' ratings may overestimate the levels of agreement. Therefore, we not only calculated the correlations between the overall perceivers' average ratings and target meta-perception, but also correlated each individual perceiver rating and targets' meta-perception. The results for both the single and average perceiver ratings revealed significant correlations for extraversion, agreeableness, conscientiousness, and neuroticism, but not openness (Table 2).

### Judgment Accuracy and Consensus

To assess judgment accuracy, self-other agreement was first calculated by correlating the self-reported scores on the BFI-44 and every single perceiver rating, and then we correlated the targets' self-view scores with average ratings of each subset of perceivers (similar to Fong and Mar, 2015). The results (Table 3) both showed that there were significant correlations for extraversion, agreeableness, conscientiousness, neuroticism, and openness, reflecting a significant level of accuracy.

In the second step, the consensus of each subset of observers was calculated via intra-class correlations (ICC, Vazire and Mehl, 2008), which reflected the consensus among different perceivers by testing; the consistency of judgment from different perceivers in one group. The results (Table 4) revealed that although each subset of targets and observers was distinct, all perceivers reached a significant consensus on all five personality traits. Users' status updates postings on WeChat and QQ can reflect consistent personality information to different perceivers.

### Unsuccessful Impression Management

Based on the results for meta-accuracy and judgment accuracy, we may conclude that although targets hope that they can make a different impression for most traits in their status updates and think that they can make a good impression for conscientiousness and openness, the actual results for the meta-accuracy and judgment accuracy show that their status updates reflect their actual personality. Users may attempt to make a different impression from their actual personality, but this attempt does not influence perceivers' judgments.

To support this assumption, we compared the differences between desired impressions and perceiver' judgments using a Mann–Whitney U-test. For all five traits, there were significant differences between targets' desired impressions and observers' judgments (Table 5). Additionally, to further examine the effects of impression management on observers' ratings, we conducted a series of regression analyses to test the extent to which the desired impression contributed to the perceivers' ratings (similar to Vazire and Gosling, 2004). The results indicated that after removing the self-view component from the desired self-ratings, there were no traits displaying significant evidence of impression management, except for extraversion, because there was no impression management for this trait (Table 6). To summarize, targets' attempts to manage impressions were unsuccessful.

### Table 1 | Wilcoxon Signed-Rank Test between desired impression and self-ratings.

| Meta-accuracy | Desired impression | Self-view | Desired impression | Self-view |
|---------------|--------------------|-----------|--------------------|-----------|
| Extraversion  | 25.94              | 26.77     | 26.00              | 27.00     |
| Agreeableness| 29.86              | 33.90     | 25.51              | 34.00     |
| Conscientiousness| 36.62             | 29.94     | 37.00              | 29.00     |
| Neuroticism  | 26.26              | 24.13     | 31.37              | 24.00     |
| Openness     | 39.42              | 36.53     | 39.00              | 37.00     |

### Table 2 | Single perceiver ratings and average perceiver ratings for all five traits.

| Meta-accuracy | Single perceiver ratings | Average perceiver ratings |
|---------------|--------------------------|---------------------------|
| Extraversion  | 0.17***                  | 0.29**                    |
| Agreeableness| 0.15***                  | 0.29**                    |
| Conscientiousness| 0.14***                | 0.30**                    |
| Neuroticism  | 0.13***                  | 0.28**                    |
| Openness     | 0.06*                    | 0.10 (p = 0.26)           |

*p < 0.05; **p < 0.01; ***p < 0.001.

### Table 3 | Single perceiver ratings and average perceiver ratings for all five traits.

| Judgment accuracy (self-other agreement) | Single perceiver rating | Average perceiver ratings |
|-----------------------------------------|-------------------------|---------------------------|
| Extraversion                            | 0.15**                  | 0.27**                    |
| Agreeableness                           | 0.15**                  | 0.23*                     |
| Conscientiousness                       | 0.07**                  | 0.17 (p = 0.06)           |
| Neuroticism                             | 0.15**                  | 0.27**                    |
| Openness                                | 0.09**                  | 0.20*                     |

Judgment accuracy indicates the correlations between the self-ratings and observers' average ratings. We also considered single perceiver ratings. *p < 0.05; **p < 0.01.
Openness Average observer 0.82

Neuroticism Average observer 0.87

Personality traits according to the status updates
and whether observers were able to accurately judge targets’
sensation management in their status updates, whether their impres-

DISCUSSION

The current research investigated whether posters used impression
management in their status updates, whether their impression
management was successful, whether posters were aware of
how perceivers viewed them based on their status updates, and whether observers were able to accurately judge targets’

in an online context. The results of the Wilcoxon
signed-rank test revealed that users wish to make an impression
in their status updates that differs from how they actually
see themselves, hoping that others would judge them as more
conscientious, neurotic, and open, but less agreeable. Moreover,
the significant correlations between targets’ meta-perception and
desired impression for conscientiousness and openness also
indicate that they might subjectively think that they can make a
positive impression on others for these two traits; these findings
are in line with previous studies suggesting that people wish
to be judged positively (e.g., Manago et al., 2008; Dijck, 2015).
Before users post their status updates, they have plenty of time to
edit and revise the message in the post and choose photographs
to convey what they want. There is little time restriction; thus,
people may have many opportunities to control their impression
in an online context.

Our results support the hyperpersonal model, which proposes
that CMC users selectively self-present, revealing information
about themselves in a selective, controlled way that treats
information as malleable to achieve socially desirable effect
(Walther, 1996). Further, our findings also support Gosling et al.’s
(2002) model which stated that individuals indeed try to make
an impression on others via their status updates.

In Table 4, we found that the intra-class correlations (ICC)
for the five traits were as follows: Extraversion: Average observer 0.89***,
Single observer 0.81***; Agreeableness: Average observer 0.90***,
Single observer 0.86***; Conscientiousness: Average observer 0.88***,
Single observer 0.82***; Neuroticism: Average observer 0.87***,
Single observer 0.89***; Openness: Average observer 0.82***,
Single observer 0.81***. These results indicate that observers were able to accurately judge targets’

The Mann–Whitney Test between desired impression and
perceivers-ratings is shown in Table 5. The test revealed that
there was a significant difference in the desired impression
between the groups, with the average observer ratings being
lower than the single observer ratings. The results are as follows:
Extraversion: U = 5672.50, Z = −2.84, p = 0.004; Agreeableness:
U = 6247.00, Z = −1.77, p = 0.076; Conscientiousness:
U = 1493.50, Z = −10.62, p < 0.001; Neuroticism:
U = 5460.50, Z = −3.24, p = 0.001; Openness:
U = 2605.00, Z = −8.55, p < 0.001.

In Table 6, we found that the standardized beta weights for
the regression analysis were as follows: Extraversion: Self-view 0.13**,
Self-view impression 0.17***, Desired impression −0.09*; Agreeableness:
Self-view 0.23***, Self-view impression 0.23***, Desired impression 0.03;
Conscientiousness: Self-view 0.07 (p = 0.07), Self-view impression 0.05,
Desired impression 0.06; Neuroticism: Self-view 0.13**, Self-view impression 0.13**,
Desired impression 0.02; Openness: Self-view 0.06, Self-view impression 0.03,
Desired impression 0.05. These results indicate that observers were able to accurately judge targets’

The self-view was entered in the first block of the regression equation, and the ideal
impression was entered in the second block. *p < 0.05; **p < 0.01; ***p < 0.001.
impression for all traits. Future research should conduct in-depth interviews on users' real thoughts about what they wish to express in status updates.

**Understanding Meta-Accuracy, Judgment Accuracy, and Consensus**

The findings related to meta-accuracy reveal that of the Big Five, only openness was not accurately inferred by targets at average-perceiver level. People hope they can make a different impression on others; however, their meta-accuracy was high. Individuals hope to make a good or bad impression on others, but they know what they are actually expressing in their status updates, therefore, they can accurately infer how others judge them when others come across their status updates. This consistent with Gosling et al.'s (2002) description of the model of interpersonal perception, status updates make an identity claims not only on others but also on posters themselves; these symbolic statements made by individuals may sometimes be for their own benefit, and reinforce their self-views.

The findings on judgment accuracy reveal that perceivers can accurately judge targets' extraversion, agreeableness, conscientiousness, neuroticism, and openness. This is partially in line with, but broader than prior findings based on tweets (Twitter messages), which indicated that observers were able to accurately judge owners' agreeableness and neuroticism (Qiu et al., 2012). The differences between these results likely suggest that different contents expressed in an online context may provide different information related to personality. The status updates in our study contain not only original written messages by the target participants but also photographs and reposted materials such as music or articles different from studies that only use linguistic cues, such as from tweets (Qiu et al., 2012) or images, such as selfies from microblog profile pictures (Qiu et al., 2015). The results on judgment consensus, however, are in line with findings from previous research examining tweets (Qiu et al., 2012) and selfies (Qiu et al., 2015): all Big Five personality traits, including extraversion, agreeableness, conscientiousness, neuroticism, and openness, can be judged consistently by different subsets of non-acquainted perceivers. This indicates that the content people choose to post can give rise to a consistent impression among different perceivers. In this sense, the current findings again support Gosling et al.'s (2002) model: users' status updates indeed reflect their truthful personality information. Further, our results also support the lens model (Brunswik, 1956), because our results suggested that status updates on SNSs are valid cues, and perceivers are capable enough of making judgments based on targets' status updates.

**Unsuccessful Impression Management**

Our results demonstrate that users' impression management via status updates is basically unsuccessful, as it does not influence perceivers' judgment. If so, why? There are several possible explanations. The first involves the nature of the SNSs. Unlike some microblog platforms such as Sina Weibo in which strangers can browse users' posts without restriction, the status updates posted on WeChat and QQ are presented to people who knows the poster, and users and their online friends may also interact with each other offline. Therefore, users must maintain a consistent impression formed by their friends in both online and offline contexts; thus, they might not dare to manipulate their impression too actively, leaving more room for true information alongside managed information. This is in line with Vazire and Gosling (2004), who suggest that people manage their online expressions within a certain parameter of their offline personality. Walther and Parks (2002) similarly noted that due to the less anonymous quality of these platforms, radical departures of online and physical self are less possible.

In the case of perceivers, they may not completely trust the content of status updates. Krämer et al. (2017) noted that observers become suspicious when they perceive “presenters” as motivated to manage impression of their selves, and according to the lens model of Brunswik (1956), perceivers may take motives of the users into account in order to improve accuracy of perception.

The warranting theory (Stone, 1995; Walther and Parks, 2002) posits that a warrant is online information that creates a connection between the online and offline self, and that the online and offline selves represent a continuum rather than mutually exclusive selves. Walther and Parks (2002) defined the warranting value of information about a person based on the perceiver's perception about the extent to which the content of that information is immune to manipulation by the sender. This means that perceivers tend to trust information which is difficult for senders to manipulate. Perceivers often make efforts to seek information in order to connect senders' online and offline selves — not blindly making judgments based on status updates but also making efforts to seek information that can link targets' offline and online selves. When making judgments, perceivers may deeply consider how the target behaves in the offline world and may base their information off more than is shown overtly.

Taken together, the present findings make important theoretical and practical contributions. Regarding theoretical significance, our study is the first to explore users' meta-perception and perceivers' perception of strangers' Big Five personality dimensions based on status updates, and the accuracy of judgment offers new empirical evidence on personality expression in SNSs. Our study expanded the number of observers from less than 10 in most previous studies (Gosling et al., 2007; Qiu et al., 2012; Wall et al., 2016) and the consensus of observers reached a significant level for each Big Five trait in each of our subsets. These results strengthened previous studies' findings that a consistent impression of someone's personality can be formed among different, separate perceivers. In this study, we novelty considered users' meta-perception and perceivers' judgment accuracy to illustrate the process of impression management of status updates, and gathered new evidence supporting the hyperpersonal model and the model about interpersonal perception. That impression management was unsuccessful also supports Brunswik's lens model and warranting theory, which supposes that perceivers use cues to make judgments in a more sophisticated way, rather than simply using surface information. The current study also has some practical implications. With the increasing prevalence of SNSs and the
increasing frequency of status update postings, understanding the processes of impression management by users and impression formation by perceivers can help people to understand their online friends and promote relationship development.

Limitations and Future Directions
There are some limitations to the current study. The first one is that as the participants were mainly university students, their status updates might express a relatively narrow range of topics and information compared to people in general. Hence, future studies should extend the age range of samples to further explore perceivers’ judgment accuracy based on status updates. At the same time, we did not report on gender differences in our research, whereas prior research has shown that males and females choose different profile pictures on Facebook for presenting themselves (Zheng et al., 2016). Females are more likely to use their profile pictures for impression management than are males, and they also tend to spend more time than do males on photo activities (McAndrew and Jeong, 2012). Given these findings, we believe other gender differences may also exist in this area; future studies should consider potential differences in depth with respect to what males and females post in status updates, meta-accuracy, and impression management. Second, our stimulus materials excluded likes, comments, and interactions between users and their friends. This content may reflect more authentic information about people’s personality, as according to the warranting principle other-generated information, such as comments on posts, has more effect on perceivers’ judgments than target self-descriptions do (Walther et al., 2009). Impression management may thus also occur in comments and interactions between users and their friends. Future research can more deeply investigate these possibilities. Third, in the current study, we focused on the Big Five personality traits, but there are many other dimensions worthy of exploration, such as meta-perception and perceivers’ judgments of self-esteem, loneliness, and humility, and whether these perceptions differ between online and offline contexts. Our findings demonstrate phenomena regarding unsuccessful impression management in perceivers’ perceptions, and future studies should investigate the potential mechanisms of unsuccessful impression formation through status updates or other information in an online context. Finally, future studies can consider users’ meta-perceptions and perceivers’ perceptions to explore the inherent mechanisms of impression management and impression formation on a deeper level. In addition, attention should also be paid to qualitative research, although the current study showed that impression management occurs in users’ status updates, the content of status updates can reflect people’s actual personality traits, and therefore, future studies should investigate which cues are important for perceivers’ judgments and which cues actually reflect users’ personality traits.

CONCLUSION
The current study made use of information derived from status updates by SNS users. When users post status updates in SNSs, they tend to actively manage their personality impression even if the updates will be presented only to friends who already know them well. Although users may hope to make a certain impression on others, they tend to know what they are expressing in their status updates and that it might not match that impression. That is, they can accurately infer how others view them based on their status updates. Unexpectedly, impression management does not influence perceivers’ judgment process or results; these observers are able to accurately judge targets’ Big Five traits based on their status updates. Perhaps users are aware that their posts will be observed by their friends, and therefore ensure that their impression management is within certain parameters of their offline self; or perhaps perceivers recognize the user's motivation of impression management, and therefore suspect the authenticity of the status updates and make more sophisticated and careful judgments.

ETHICS STATEMENT
This study was approved by the Ethics Committee of Southwest University of China. All participants were informed that their participation was completely voluntary and that they may withdraw from the study any time.

AUTHOR CONTRIBUTIONS
TW proposed the research idea, designed and carried out the present study, as well as drafted the manuscript. YZ participated in the design and experimental work and interpretation, and revised this article critically.

FUNDING
This work was supported by the Fundamental Research Funds for the Central Universities (SWU1709106), China.

REFERENCES
Back, M. D., Stopfer, J. M., Vazire, S., Gaddis, S., Schmukle, S. C., Egloff, B., et al. (2010). Facebook profiles reflect actual personality, not self-idealization. Psychol. Sci. 21, 372–374. doi: 10.1016/j.qops.2018.08.007
Biel, J. I., and Gatica-Perez, D. (2012). The youtube lens: crowdsourced personality impressions and audiovisual analysis of vlogs. IEEE Trans. Multimedia 15, 41–55. doi: 10.1109/tmm.2012.2225032
Borkenau, P., Mosch, A., Tandler, N., and Wolf, A. (2016). Accuracy of judgments of personality based on textual information on major life domains. J. Pers. 84, 214–224. doi: 10.1111/jopy.12153
Brunswik, E. (1956). Perception and the Representative Design of Psychological Experiments. Berkeley, CA: University of California Press.
Carlson, C. L. (2015). How do facebook users believe they come across in their profiles?: a meta–perception approach to investigating facebook self–presentation. Commun. Res. Rep. 32, 93–101.
Carlson, E. N. (2016). Do psychologically adjusted individuals know what other people really think about them? The link between psychological adjustment and meta-accuracy. *Soc. Psychol. Pers. Sci.*, 7, 717–725. doi: 10.1177/1948550616646424

Carlson, E. N., and Furr, R. M. (2012). Resolution of meta-accuracy should people trust their beliefs about how others see them? *Soc. Psychol. Pers. Sci.*, 4, 419–426. doi: 10.1177/1948550612461653

Darbyshire, D., Kirk, C., Wall, H. J., and Kaye, L. K. (2016). Don’t judge a (face)book by its cover: exploring judging accuracy of others’ personality on facebook. *Comput. Hum. Behav.*, 58, 380–387. doi: 10.1016/j.chb.2016.01.021

Deters, F. G., and Mehl, M. R. (2013). Does posting facebook status updates increase or decrease loneliness? An online social networking experiment. *Soc. Psychol. Pers. Sci.*, 4, 579–586. doi: 10.1177/1948550612469233

Dück, J. V. (2015). ‘You have one identity’: performing the self on Facebook and linkedin. *Libri.*, 35, 199–215. doi: 10.1613/jop.12316

Fong, K., and Mar, R. A. (2015). What does my avatar say about me? Inferring personality from avatars. *Pers. Soc. Psychol. Bull.*, 41, 237–249. doi: 10.1177/0146167214562761

Gillath, O., Bahn, A. J., Ge, F., and Crandall, C. S. (2012). Shoes as a source of first impressions. *J. Res. Pers.*, 46, 423–430. doi: 10.1016/j.jrp.2012.04.003

Goffman, E. (1959). *The Presentation of Self in Everyday Life*. Newyork, NY: Doubleday/Anchor Books.

Gosling, S. D., Gaddis, S., and Vazire, S. (2007). Personality impressions based on facebook profiles in Paper presented at 2007 International Conference on Weblogs and Social Media, ICWSM 2007, Boulder, CO.

Gosling, S. D., Ko, S. J., Mannarelli, T., and Morris, M. E. (2002). A room with a cue: personality judgments based on offices and bedrooms. *J. Pers. Soc. Psychol.*, 82, 379–398. doi: 10.1037/0022-3514.82.3.379

Hirschmüller, S., Schmukle, S. C., Krause, S., Back, M. D., and Egloff, B. (2017). Accuracy of self-esteem judgments at zero acquaintance. *J. Pers.*, 86, 308–319. doi: 10.1111/jopy.12316

Holleran, S. E., and Mehl, M. R. (2008). Let me read your mind: personality judgments based on a person’s natural stream of thought. *J. Res. Pers.*, 42, 747–754. doi: 10.1016/j.jrp.2007.07.011

John, O. P., Donahue, E. M., and Kentle, R. L. (1991). *The Big-Five Inventory*. Berkeley, CA: University of California.

Kenny, D. A. (1994). *Interpersonal Perception: A Social Relations Analysis*. Newyork, NY: Guilford Press.

Kenny, D. A., and Depaulo, B. M. (1993). Do people know how others view them? An empirical and theoretical account. *Psychol. Bull.*, 114, 145–161.

Kowalski, R. M., and Leary, M. R. (1990). Strategic self-presentation and impression formation in online social networks: an integrative approach to understanding the processes of accuracy, impression management and meta-accuracy. *Eur. J. Pers.*, 28, 73–94. doi: 10.1002/per.1935

Kuder, C. M., and Mehl, M. R. (2008). Knowing me, knowing you: the accuracy and unique predictive validity of self-ratings and other-ratings of daily behavior. *J. Pers. Soc. Psychol.*, 95, 1262–1216. doi: 10.1037/a0013314

Walther, J. B. (1996). Computer-mediated communication interpersonal, interpersonl, and hyperpersonal interaction. *Commun. Res.*, 23, 3–43. doi: 10.1177/009365029602300101

Walther, J. B., Heide, B. V. D., Hamel, L. M., and Shulman, H. C. (2009). Self-generated versus other-generated statements and impressions in computer-mediated communication: a test of warranting theory using facebook. *Commun. Res.*, 36, 229–253. doi: 10.1177/0093650208320521

Winter, S. A. (2016). ‘Caes filtered out, cues filtered in: computer-mediated communication and relationships,’ in *Handbook of Interpersonal Communication*, ed. G. R. Miller, (Thousand Oaks, CA: Sage), 529–563.

Winters, S., Neubaum, G., Eimler, S. C., Gordon, V., Theil, J., Herrmann, J., et al. (2014). Another brick in the facebook wall–How personality traits relate to the content of status updates. *Comput. Hum. Behav.*, 34, 194–202. doi: 10.1016/j.chb.2014.01.048

Zheng, W., Yuan, C. H., Chang, W. H., Wu, H. C., and Jim, Y. C. (2016). Profile pictures on social media: gender and regional differences. *Comput. Hum. Behav.*, 63, 891–898. doi: 10.1016/j.chb.2016.06.041