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Group norms and conformity

Open Access Peer-reviewed When people have different opinions in a group, they often adjust their own attitudes and behaviors to match the group opinion, known as social conformity states that people conformity posits that the motive to learn from others produces herding. Here, we test another possibility that following the crowd reduces the experienced negative emotion when the group gambling task, we found that participants were more likely to choose the option that was predominately chosen by other players in previous trials, although there was little explicit normative pressure at the decision stage and group choices were different from others, the feedback related negativity (FRN), an ERP component sensitive to losses and errors, was enhanced, suggesting that being independent is aversive. At the outcome stage, the losses minus wins FRN effect was significantly reduced following conformity choices than following independent choices. Analyses of the P300 revealed similar patterns both in the response and outcome period. Our study suggests that social conformity serves as an emotional buffer that protects individuals from experiencing strong negative emotion when the outcomes are bad. Citation: Yu R, Sun S (2013) To Conform or Not to Conf Accepted: April 15, 2013; Published: May 17, 2013Copyright: © 2013 Yu, Sun. This is an open-access article distribution, and reproduction in any medium, provided the original author and source are credited. Funding: We acknowledge the Foundation for High-level Talents in Higher Education of Guangdong (No. C10454) for financial support. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript. Competing interests: The authors have declared that no competing interests exist. Humans are highly susceptible to social influence. When an individual's judgment conflicts with a group, the individual often conforms his judgment to that of the group [1]. This ubiquitous phenomenon that individual's intrinsic motives behind their behavior, there are two main types of conformity. In other situations, if people rely on others to determine what is correct to do in uncertain contexts, it is referred as informational conformity, this underlying form of social influence is called normative conformity [3], [4] Informational conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality, whereas normative conformity is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with accuracy and the search for information about reality is concerned with a search for information about reality is concerned with a search for information about reality is concerned with a search for information about reality is concerned with a search for information about reality is concerned with a search for information about reality is concerned with a search for informati respect to different types of conformities [6]. The accuracy account of informative conformity posits that individuals may conform to information supplied by a group of confederates when reconstructing their memories for stimuli [7]. Investigators, for example, demonstrated that when faced with unfamiliar songs, a common strategy to find the best is to choose the most downloaded one [8]. However, informative conformity is not necessarily effective since people can conform to poor targets and what the majority believe is not always correct. The affiliation theory of normative conformity proposes that individuals are frequently rewarded for behaving in accordance with opinions of the majority [3]. Using a mental rotation task, Berns et al. studied conforming behavior in face of wrong information and found that mismatches or conflicts between one's own preference and the others' motivate him to switch individual choice towards the consensus [1]. Previous research also demonstrated that disagreement between the subject and the confederates induced stronger conflicts monitoring [9], but decreased activity in reward regions such as the nucleus accumbens [10]. The above research provided neural support for the normative conformity, which suggested that affiliation with others is rewarding and people tend to follow others for the diminished conflicts or social deviance. Furthermore, the anterior cingulate cortex (ACC) receives projections from the midbrain dopaminergic regions and has been proposed to play an important role in reward processing, error detection and conflict monitoring. Recent Event-related potential (ERP) studies have identified two components, the feedback related negativity (FRN) and the P300. FRN is suggested to be generated at the anterior cinqulate cortex by source localization analysis and preforms a role in encoding reward prediction error, conflict detection and error monitoring [11]. The FRN is a negative deflection at fronto-central recording sites and peaks between 250-300 ms post onset of outcome feedback [12]. A stronger negativity in amplitude predicts a stronger FRN effect. Previous studies revealed that the FRN is more negative to monetary losses compared with monetary gains, and is more negative to monetary losses compared with monetary gains, and is more negative for 'worse than expected' prediction error than prediction congruence [12]-[16]. The deviation from the initial prediction is termed as prediction error or expectation violation [17]. Additionally, a recent research demonstrated that feedbacks indicating deviance from the group norm elicited a feedback-related negativity, a brainwave signal known to be elicited by objective performance errors and losses. The results imply that the brain treats deviance from social norms as an error [18]. Moreover, another reward related ERP component named the P300 peaks around 300-600 ms after stimulus presentation and has the most positive. It is suggested that the P300 is sensitive to a later, top-down controlled process of outcome evaluation, where factors related to the allocation of attentional resources come to play. Those factors include reward valence, reward magnitude, and previous study also demonstrated that individuals treat deviance from social norms as prediction errors or cognitive conformity signals and the FRN amplitude would be modulated by the degree of conformity signals and the FRN amplitude would be modulated by the degree of conformity signals and the FRN amplitude would be modulated by the degree of conformity signals and the FRN amplitude would be modulated by the degree of conformity. comfort. Berns's study also suggested that independence was associated with increased amygdala and caudate activity, which provided the first biological evidence for the involvement of perceptual and emotional processes during social conformity [1]. Additionally, another study by Berns et al. demonstrated that the tendency to change one's evaluation of a song was positively correlated with activation in the anterior cingulate [20], two regions that are frequently associated with physiological arousal and negative affective states [21]. Taking the above studies together, we predict that going against the group was more unpleasant or conflicting whereas going with the group was more rewarding or acceptable. People tend to conform to others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others, but for pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with others are pursuit of positive emotion when affiliated with other pursuit of positive emotion when affiliated with a pursuit of positive emotion when affiliated with a pursuit of positive emotion when affiliated with a pursuit of cingulate such neural mechanisms) which may function as buffers against physical and emotional pains. However, there is no existing theory illustrating this hypothesis. Additionally, previous studies mainly focused on normative pressure and few studies have investigated spontaneous conformity. Here, we designed a group gambling task where the participants, together with another two confederates, were required to choose either the left or right field and received win or loss feedback regarding each person's outcome. When participants' choices turned out to be different from others' decisions, we referred this condition as independent condition; when the two confederates choice was the same as the other two confederates choice, the situation is termed this condition. Two critical manipulations were introduced in our experiment. First, participants were required to make decisions before seeing others' choices, which minimized the normative pressure. It was still possible that participants can learn the dominant preference based on observations of previous trials, and this learned 'social norms' can put pressure on participants' current choice. However, such pressure was much less than the pressure people normally face when choosing after explicitly knowing others' choices. Second, the confederates chose one field (dominate field) more frequently than the participants still show informational conformity from probabilistic nature of the confederates' choices. They can subjectively learned the informational or accurate reference theoretically. Additionally, they may also refer to others though there was no any monetary incentive to follow others' choices. Our aim was to test the mentioned new hypothesis of social conformity, and further analyze whether social conformity modulates the neurophysiological representation of the experienced monetary outcomes using event-related potentials (ERP) techniques. We hypothesized that, at the behavioral level, if participants conformed to others, they chose the predominant field more frequently and experienced more pleasure. At the neural level, during the response period, if participants' choices were different from others, enhanced FRN and diminished P300 would be observed since being independent was associated with more emotional conflicts; during the outcome period, when individuals conformed to others, their sensitivity to monetary rewards (e.g. the actual gain or loss) would be reduced at the outcome stage, which can be reflected in the reduced loss-win FRN difference waveform and P300 difference waveform. Among the twenty-four electroence phalo-graph (EEG) participants, three participants stated that they completely disbelieved the experimental manipulation in the interview after the EEG test. These participants were excluded from data analysis, leaving twenty-one participants were right-handed, and had normal or corrected-to-normal vision, and were screened for neurological or psychiatric disorders. The study was approved by the Academic Committee of the School of Psychology at South China Normal University. All participants gave written, informed consent and were informed consent and were informed of their right to discontinue participation at any time. All participants were paid a uniform amount (¥40, about 7 US dollar) for their participation. Before the EEG experiment, participants were told that they would attend a group gambling task with the other two partners on the internet. The purpose of this task was to study how people make decisions in a group gambling task with the other two partners on the internet. The purpose of this task was to study how people make decisions in a group. Unbeknown to partners were confederates. Then participants were told that they would attend a group gambling task with the other two partners on the internet. taken using a digital camera. Similarly, two pictures of the confederates (matched on gender) were taken in the presence of the participants to believe they were playing with two real persons. After that, both the participant and the confederates were given a comprehensive description of the tasks they would perform and the real participant was directed into other two different experiment rooms. The same confederates were given a comprehensive description of the tasks they would perform and the real participant was directed into other two different experiment rooms. The same confederates were given a comprehensive description of the tasks they would perform and the real participant was directed into other two different experiment rooms. study (two males for the male participants and two females for the female participants). At the beginning of each trial, a vertical line separating the screen into the left and right two parts, was presented along with a text 'Choose' (see Fig.1). Participants were required to make an alternative choice (indicating a monetary reward) from either the left or the right field by pressing the corresponding key within 2 seconds. They were told that the other two participants were also making decisions in the same task. Then, the choice of the participants were told that the other two participants were also making decisions in the same task. Then, the choice of the participants were also making decisions in the same task. Then, the choice of the participants were also making decisions in the same task. indicated by the location of his/her photo (3.5°high, 5.5°wide in visual angle, white against a black background) and the participant chose left, his/her photo would be presented in the left field, highlighted in yellow; if one confederate chose right, his/her photo would be shown in the right field, highlighted in white. Unbeknown to our participants, the confederates chose the left field; in 15% trials, they chose the right field much more frequently than the other field and participants. Thus, overall, the two confederates chose on field much more frequently than the other field and participants can learn this 'social norm' during the experiment. Then participants received a "You win" in green or "You lose" in red feedback for 2000 ms. The outcomes for the two confederates were also revealed and highlighted in the corresponding colors. They were told that they got an opportunity to choose one trial from the whole trials and their extra reward was based on the outcome of the selected one. If they received a "You win" feedback, they would get \(\frac{4}\)0. Unbeknown to participants, the win/loss outcomes were predetermined according to a pre-specified sequence, with the chance of winning in either the left or the right field was always 50%. The order of experimental trials was pseudorandom that with the constraint of no more than 3 consecutive trials with the same type of experimental procedure. At the beginning of each trial, a vertical line separating the screen into the left and the right, was presented along with a text 'Choose'. Participants were told that the other two participants were also making decisions at the same time. Then, the choice of the participant and the choices of the two confederates in separate rooms were revealed on the screen for 2 seconds. Each individual's choice was indicated by the location of his/her photo and the participant's choice and two confederates' choices were highlighted in different colors. Then they received a "You win" or "You lose" feedback for 2000 ms. The colors (green or red) associated with positive/negative feedback were counterbalanced. The given trial represents an independent-loss condition in which the subjects of the photographs have given written informed consent, as outlined in the PLOS consent form, to publication of their photographs. The images used in the figure are not the original images used in the study, but similar images used for illustrative purposes only. the end of the experiment, participants were debriefed and required to indicate how satisfied they felt for each type of feedback using a 11-point analogue Likert scale (0 = not at all, 10 = very intensely). There were six experimental conditions at the outcome stage, i.e. independent loss (IL): chose to be different from others and actually won; baseline loss (BL): chose to conform to one of the confederates and actually won; conformity loss (CL): chose to conform to others and actually won). They were also asked to indicate how surprised they felt when receiving these outcomes. The participant was seated comfortably about 1.5 m in front of a computer screen in a dimly lit and electromagnetically shielded room. The experiment was administered on a Lenovo computer in CRT display, with 1024*768 resolutions, using E-prime software to control the presentation and timing of stimuli. The EEG was recorded from 64 scalp sites using tin electrodes mounted in an elastic cap (NeuroScan4.5) according to the International 10-20 system. The vertical-oculogram (VEOG) was recorded from left supra-orbital electrodes placed on the left mastoid, and the impedance was maintained below 5KΩ. The EEG and electro-oculogram (EOG) were amplified using a 0.05-70 Hz band-pass and were continuously sampled at 500 Hz/channel for off-line analysis. The EEG data were re-referenced off-line to linked mastoid electrodes by subtracting from each sample of data recorded at each channel one-half the activity recorded at the right mastoid. Ocular artifacts were corrected with an eye-movement correction algorithm [22]. Epochs of 800 ms (with 200 ms pre-stimulus baseline) EEG for each electrode were filtered using a 20 Hz low-pass. After that they were baseline corrected by subtracting from each sample the average activity of that channel during the recording epoch were excluded from analysis. All trials in which EEG voltages exceeded a threshold of ±70 μν during the recording epoch were excluded from analysis. The grand average FRN amplitudes were measured in a window of 200 to 400 ms after the onset of choice and outcome respectively. The peak value of the P300 was detected as the most positive value in the 300-500 ms time window. We focused on the FRN responses at the anterior frontal midline electrodes (Fz) and the P300 responses at the posterior midline electrode (Pz), since the FRN and P300 effects were the largest at these electrodes, respectively. The FRN data were entered into one way ANOVA with three different conditions (independent, baseline vs. conformity) for the response period, and repeated-measures ANOVAs with conditions (independent, baseline vs. conformity), feedback (win vs. loss) as two within subject factors for the outcome period. (The six conditions were as follows. IL: chose to be different from others and actually lost; BW: chose to conform to one of the confederates and actually won; CL: chose to conform to others and actually lost; CW: chose to conform to others and actually won). The Greenhouse-Geisser correction for repeated measures was applied where appropriate. percentage of choosing the left dominant field. Compared with the 50% probability of gaining a reward randomly, independent-sample t-test results showed that participants were more likely to choose the field dominantly chosen by the two confederates (mean ± SD, 52.27%±4.37%), t (20) = 54.53, p0.05. Download: Figure 6. The correlation between subjective satisfaction/surprise rating and FRN difference waveform. For the outcome period, the correlations between subjective satisfaction rating and FRN difference waveform (conformity loss-win) were shown separately (A&B). The correlation between subjective satisfaction rating and FRN difference waveform (conformity loss-win) were shown separately (A&B). loss-win) was also shown (C).**p

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