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1 **When can felt accountability promote innovative work behavior? The role of**
2 **transformational leadership**

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Abstract

Purpose: Studies have reported negative effects of felt accountability on employees' extra-role behavior. Deviating from that focus, this study proposes that leadership plays a role in shaping the implications of felt accountability for employees' extra-role behavior. We propose that under high transformational leadership, felt accountability can motivate employees to engage in task-relevant information elaboration and facilitate innovative work behavior, a form of extra-role behavior that seeks to improve the work environment.

Design: We conducted a pilot study to validate measurements of felt accountability and task-relevant information elaboration in a sample of 202 employees. We then conducted the main study using a time-lagged, multisource survey design with a sample of 120 supervisor-employee pairs.

Findings: The results from the main study reveal that the association between felt accountability and task-related information elaboration is positive and stronger when transformational leadership is higher. Furthermore, task-relevant information elaboration positively predicts innovative work behavior. Finally, when transformational leadership is higher, the mediation effect of task-relevant information elaboration on the association between felt accountability and innovative work behavior is stronger.

Originality: Our study indicates that felt accountability can have positive implications for employees' extra-role behavior contingent on leadership styles. In contrast to previous studies that emphasize the negative implications of felt accountability on employees' behavior, our study depicts when and why felt accountability can have positive implications on employees' behavior.

Keywords: felt accountability, information elaboration, transformational leadership, innovation

61 Human resource management (HRM) is essential for organizations, as it not only sustains
62 organizational functioning but also encourages innovation (Jebali and Meschitti, 2021; Adla et
63 al., 2020), which is beneficial for organizations to adapt to rapid economic changes and gain
64 competitive advantage (Bos-Nehles et al., 2017). Of the HRM practices, accountability is one of
65 fundamental mechanisms that is designed and widely implemented in organizations (Hall et al.,
66 2003). Accountability requires different parties and actors in organizations to justify their actions,
67 thus facilitating coordination within organizations and effective organizational operation (Hall et
68 al., 2017). Despite its positive functions for organizations, accountability can reduce employees’
69 extra-role behavior, as they may not be willing to engage in behavior that deviates from what
70 they are expected to do. Empirical studies have reported that employees’ felt accountability—
71 defined as an individual’s subjective perceptions of his or her own accountability in a given work
72 context (Frink and Klimoski, 1998) or the “perceived expectation that one’s decisions or actions
73 will be evaluated by a salient audience and that rewards or sanctions are believed to be
74 contingent on this expected evaluation” (Hall and Ferris, 2011: , p. 134)—can undermine their
75 extra-role behavior (Mitchell et al., 1998; Hall and Ferris, 2011).

76 While studies have revealed negative effects of felt accountability on employees, based on
77 role theory (Katz and Kahn, 1978), we argue that the impact of felt accountability on employees’
78 work attitude and outcomes is contingent on their supervisors. Role theory specifies “the
79 development of shared role expectations and the acceptance of organizational roles and suggests
80 that the expectations of role senders (e.g., supervisors) influence the behaviors of the target”
81 (Hall et al., 2017: , p. 207). In the work setting, supervisors play a significant role in shaping
82 employees’ accountability (Frink and Klimoski, 1998; Katz and Kahn, 1978), as they provide
83 role expectations for employees’ conduct and have influence over the distribution of rewards and
84 punishment. In other words, employees high in felt accountability are likely to define their

85 criteria for performance and achievement in accordance with the evaluated expectations of
86 supervisors and to be responsive to supervisors' signals regarding role and behavioral
87 expectations. Accordingly, we argue that felt accountability facilitates employees' extra-role
88 behavior if this behavior is within their supervisors' expectations.

89 To corroborate this hypothesis, in this study, we focus on transformational leadership, a
90 leadership style in which leaders serve as role models and develop, support, and intellectually
91 stimulate employees to strive for a shared vision and expectation of the future (Bass, 1985;
92 Podsakoff et al., 1990; Wang et al., 2011). Previous research suggests that transformational
93 leaders tend to create innovative engagement inertia to reinforce the link between innovation
94 work behavior and its determinants (Knezović and Drkić, 2021). Accordingly, we argue that
95 under transformational leadership, felt accountability can facilitate employees' deliberative
96 thinking when performing their jobs and thus facilitate their innovative work behavior (e.g.,
97 Scott and Bruce, 1994). Innovative work behavior is "the intentional creation, introduction and
98 application of new ideas within a work role, group or organization, in order to benefit role
99 performance, the group, or the organization" (Janssen, 2000: , p. 288). It is a form of extra-role
100 behavior that involves problem recognition and the identification of potential opportunities
101 (Janssen, 2000; Scott and Bruce, 1994) so that employees can generate and implement novel
102 ideas to bring about change (Parker and Collins, 2010). Specifically, we posit that
103 transformational supervisors set employees' expectations to challenge the status quo and to lead
104 to a better future (e.g., Duan et al., 2017). Such role expectations strengthen the association
105 between felt accountability and employees' task-relevant information elaboration (i.e., the levels
106 of thinking and evaluations related to information relevant to one's tasks) (Kearney and Gebert,
107 2009; Van Dick et al., 2008) and therefore facilitate employees' innovative work behavior (see
108 Figure 1).

109 Our research contributes to the literature in three ways. First, in contrast to previous findings
110 that have identified negative consequences of felt accountability on employees' extra-role
111 behavior (e.g., Mitchell et al., 1998; Hall and Ferris, 2011), our study suggests that felt
112 accountability can contribute to employees' innovative work behavior—a positive work
113 behavior—under transformational leadership. Our study highlights that felt accountability does
114 not always bring negative employee outcomes. Second, by identifying the moderation effect of
115 transformational leadership, our study suggests that leadership can play a key role in shaping the
116 effect of felt accountability on employees' thinking and behavior, as leaders with different
117 leadership styles have different expectations of employees. We thus suggest that in the
118 organizational setting, we should consider leadership—or, more broadly, other factors that can
119 shape expectations and evaluation criteria for employees—when studying the impact of felt
120 accountability on employee outcomes. Third, we offer a different view to understand the impact
121 of felt accountability on an individual's information processing. While previous studies suggest
122 that felt accountability may narrow an individual's attention to information related to evaluation
123 criteria (Tetlock, 1983; Schlenker et al., 1994; Tetlock, 1992), our study suggests that felt
124 accountability can be associated with a higher level of information elaboration when an
125 individual is expected to engage in active thinking and to challenge the status quo under
126 transformational leadership. Finally, our study advances the current understanding of HRM-
127 innovation by underpinning the value of the contingent role of supervisors that echoes HRM
128 practices. As the effect of HRM practices on work innovation can be strengthened by
129 supervisors' behaviors, our study suggests that supervisors can convey role expectations via
130 various leadership actions to additionally help HRM practices effectively foster employees'
131 behaviors.

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133 Insert Figure 1 here

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135 **Theory and hypothesis development**

136 **Role theory and felt accountability**

137 Role theory has been used to explain the essential components and relationships central to
138 accountability in the work context (Frink and Klimoski, 2004; Frink and Klimoski, 1998). Based
139 on an interpersonal approach, role theory specifies how the shared role expectations and the
140 taking of organizational roles between supervisors and employees mutually shape employees'
141 thoughts and actions (Hall et al., 2017). Specifically, since the role expectations are built upon
142 the rules for appropriate behaviors and the allocation of rewards and/or resources, the theory
143 assumes that the role expectations of senders (e.g., supervisors) serve as the stimulus for the
144 focal person (e.g., worker) behaviors (Frink and Klimoski, 1998). Role senders can communicate
145 such expectations to a role taker via various direct or subtle means. Then, the role taker can
146 process and respond to expectations by the ways of thinking and behaving according to his or her
147 own expectations (Frink and Klimoski, 2004).

148 In essence, accountability in organizations involves the core mechanism of role making, and
149 role making, as role theory does, unfolds the development of self-actions–standards perceptions
150 (Schlenker et al., 1994). Accountability refers to “an implicit or explicit expectation that one’s
151 decisions or actions will be subject to evaluation by some salient audience(s) with the belief that
152 there exists the potential for one to receive either rewards or sanctions based on this expected
153 evaluation” (Hall and Ferris, 2011: , p. 134). When individuals feel accountable, they are held
154 answerable for their work due to evaluation expectations (Frink and Klimoski, 1998) and have
155 several characteristics. Specifically, accountable individuals expect that what they say or do will
156 have personal consequences for them; anticipate that their performance will be observed and

157 assessed by another salient audience and, thus, that rewards and sanctions are contingent upon on
158 the evaluations of another salient audience; anticipate that they are required to give reasonable
159 explanations for their words and behaviors (Lerner and Tetlock, 1999; Frink et al., 2008).

160 Due to the above characteristics of interpersonal expectations, accountable individuals
161 presumably engage in more effort-demanding and vigilant information processing to pursue
162 satisfactory judgment of them, which not only is associated with rewards determined by salient
163 audiences (Lerner and Tetlock, 1999) but also helps protect their self-image, status, and self-
164 esteem (Tetlock, 1983). Because people inherently seek approval and respect from agents
165 holding them accountable (Tetlock, 1992), those with a strong sense of accountability are more
166 likely to respond based on rules and regulations regarding task responsibilities, acceptable
167 actions, and evaluating audiences (Green et al., 2000). Accordingly, we expect that under
168 transformational leadership—or when supervisors expect their subordinates to challenge the
169 status quo and bring positive change to the work context (Podsakoff et al., 1990; Bass, 1999)—
170 higher felt accountability motivates employees to elaborate on work-related information, which
171 in turn promotes their innovative behavior at work.

172 **Felt accountability and task-relevant information elaboration: A moderation effect of**
173 **transformational leadership**

174 Grounded in role theory, we argue that felt accountability can enhance task-relevant
175 information elaboration, or the extent to which employees think about, analyze, and integrate
176 personal task-relevant knowledge, ideas, and insights (cf. van Knippenberg et al., 2004). First,
177 felt accountability implies that individuals are expected and required to answer for their actions
178 and decisions, which are subject to rewards or sanctions (Hall et al., 2017; Frink et al., 2008). In
179 this regard, employees with higher felt accountability pay more attention to task responsibility
180 and thus collect and analyze information relevant to their work duties to ensure that their work

181 behaviors and decisions are correct and adequate. Second, as people are driven to form, maintain,
182 and protect their self-image and status (Schlenker et al., 1991), employees are likely to respond
183 to the perception of accountable demands by increasing their cognitive vigilance, such as by
184 analyzing the pros and cons of potential options of action (Lerner and Tetlock, 1999). Third,
185 individuals tend to seek respect and approval from respective audiences to build group identity
186 and fulfill their need for belongingness (Baumeister and Leary, 1995). As such, felt
187 accountability motivates employees to exhibit their competence and value to gain approval from
188 agents holding them accountable (Tetlock, 1992).

189 This impact of felt accountability on information elaboration can be more prominent when
190 employees work with transformational leaders. This is because transformational leaders, or those
191 who emphasize a change-oriented vision and stimulate employees' intellectual thinking (Bass,
192 1985; MacKenzie et al., 2001), expect employees to challenge existing work assumptions rather
193 than being cognitive misers (Arnold, 2017). Under such a leadership style, individuals with
194 higher felt accountability are likely to pay attention to work-related information and analyze
195 received information actively instead of simply following rules and routines (Tetlock, 1983;
196 Schlenker et al., 1994). In addition, as employees with a higher sense of felt accountability tend
197 to view their supervisor as an important figure of role expectations, they are likely to see
198 transformational leaders as role models (Wang et al., 2011; Bass, 1985) and use transformational
199 leaders' perspectives, beliefs, values, and conduct as criteria to understand their work role (Duan
200 et al., 2017). Because transformational leaders are active in thinking and finding alternatives to
201 bring constructive change, employees higher in felt accountability are likely to perform in the
202 same way and devote more time to thinking about challenges and opportunities at work.

203 Moreover, transformational leaders demonstrate individualized consideration and are willing
204 to listen to followers' concerns, spend time coaching and developing their followers' skills, and

205 flexibly match the needs of specific individuals (Arnold, 2017). As transformational leaders can
206 perform individualized consideration when needed, they can be regarded as secure attachment
207 figures supporting accountable individuals in questioning the current work conditions (Popper et
208 al., 2000). Transformational leaders not only empower employees to challenge the status quo but
209 also cultivate confidence and intrinsic value in the abilities of employees (Hoch et al., 2018;
210 Wang et al., 2011). The increased autonomy and competence of employees are beneficial by
211 helping accountable employees build and maintain their self-image, status, and self-esteem
212 (Tetlock, 1983). Therefore, under transformational leadership, employees high in felt
213 accountability are willing to seek work-related information and think actively.

214 H1: Transformational leadership moderates the association between felt accountability and task-
215 related information elaboration such that the association is positive and stronger when
216 transformational leadership is higher.

217 **Task-relevant information elaboration and innovative work behavior**

218 We next propose a positive relationship between task-relevant information elaboration and
219 innovative work behavior. Task-relevant information elaboration can contribute to innovative
220 work behavior for three reasons.

221 First, people who engage in higher task-relevant information elaboration are more likely to
222 integrate and associate different task-relevant knowledge and information (Koestler, 1964),
223 which helps them identify opportunities and generate new ideas to improve the work
224 environment. Second, employees with higher levels of task-relevant information elaboration are
225 more likely to observe the complexity of issues at work and to take different perspectives to
226 understand their work, which can help them find new angles and approaches to do their work
227 (Grant and Berry, 2011). Third, employees who engage in higher levels of task-relevant

228 information elaboration are likely to be more confident about their thoughts (Petty et al., 2002),
229 and thus, they are more likely to take actions to implement their ideas.

230 H2: Task-related information elaboration is positively associated with innovative work behavior.

231 **Moderated mediation model**

232 Drawing from role theory, we propose a moderated mediation model in which felt
233 accountability, under transformational leadership, motivates employees to engage in higher task-
234 relevant information elaboration, which in turn promotes employees' innovative work behavior.

235 To formally examine the moderated mediation effect, we propose the following hypothesis:

236 H3: Transformational leadership moderates the mediation effect of task-relevant information
237 elaboration on the association between felt accountability and innovative work behavior such
238 that the mediation effect is stronger when transformational leadership is higher.

239 **Methods**

240 **Sample and procedures**

241 We conducted two waves of data collection at a one-month interval in public fitness centers
242 in Taipei, Taiwan. This design helped reduce common method variance among research
243 variables (Podsakoff et al., 2003). We focus on the employees of a public fitness center in this
244 study. As their work is to provide sports service, they are required to make contact with
245 customers and find new ways to meet customers' demands, such as developing personal training
246 programs or offering different packages of sport services. We initially contacted the CEOs to
247 receive permission for the time-lagged design. Afterward, the employees and their supervisors
248 were invited and voluntarily participated in this study. Each participant read and signed the
249 informed consent form. In the first-wave survey, employees were asked to rate their felt
250 accountability and transformational leadership and to provide information about their
251 demographics and proactive personality for controls. One month later, in the second-wave survey,

252 employees were asked to complete questionnaires regarding their task-relevant information
253 elaboration at work. At the same time, their supervisors were asked to rate employees'
254 innovative work behavior. A total of 292 employees were available, and they and their direct
255 supervisors were invited to participate in this study. After deleting incomplete dyads, we finally
256 retained 120 employees and 33 supervisors, yielding a response rate of 49%. Seven supervisors
257 rated only one employee's innovative work behavior, and the remaining supervisors rated up to
258 nine employees. Of the employees, 50% were female, the average age was 32.47 ($SD=12.13$)
259 years, and the average organizational tenure was 5.88 ($SD=7.15$) years. In terms of their
260 education, 26.7% had below a bachelor's degree, and 73.3% of them held a bachelor's degree or
261 above. Among the 33 supervisors, 42.4% were female, the average age was 37.33 ($SD=9.93$)
262 years, and the average organizational tenure was 13.06 ($SD=9.99$) years.

263 **Measures**

264 We used a back-translation approach to prepare our measurements in Chinese (Brislin,
265 1970). A 7-point Likert scale ranging from 1 ("strongly disagree") to 7 ("strongly agree") was
266 used for all measures. Prior to testing our main hypotheses, we conducted a pilot study to
267 examine the psychometric properties of the felt accountability and task-relevant information
268 elaboration measurements using confirmatory factor analysis, as these two concepts, to our
269 knowledge, have not been examined in Chinese samples¹.

¹ A total of 202 employees from eight companies in China or Taiwan responded to items of felt accountability and task-relevant information elaboration. The eight companies were approached by different authors based on convenient sampling. Employees were invited by their human resources departments to voluntarily complete an anonymous survey and return it in an envelope. In this sample, 133 respondents were female. The average age was 31.60 ($SD = 7.88$) years, and the average organizational tenure was 4.71 ($SD = 5.41$) years. Most of them had a college or university degree (57.4%) or higher (12.4%). We estimated a confirmatory two-factor model in which felt accountability and task-relevant information elaboration were indicated by their own items. The model fit is acceptable (chi-square = 107.38, $df = 43$, $p < .001$; comparative fit index (CFI) = .91; Tucker-Lewis Index (TLI) = .89; standardized root mean square residual (SRMR) = .06; root mean square error of approximation (RMSEA) = .09. The correlation between the two factors was .52 ($p < .05$). Furthermore, all items' standardized factor loadings were higher than .40.

270 **Felt accountability.** The employee accountability construct was assessed by an eight-item,
271 unidimensional scale developed by Hochwarter et al. (2007). Previous research has reported
272 good reliability of this scale (Lanivich et al., 2010). The sample items included “I often have to
273 explain why I do certain things at work” and “Top management holds me accountable for all of
274 my decisions”. Cronbach’s alpha for the scale was .80.

275 **Transformational leadership.** Following Detert and Burris (2007), we used a short scale to
276 measure transformational leadership to assess the extent to which employees perceive their
277 supervisors’ transformational leadership behaviors. The scale contains three items for
278 individualized consideration and three items for idealized influence/inspirational motivation
279 from Rafferty and Griffin’s (2004) subscale. Sample items included “My supervisor considers
280 my personal feelings before acting” and “My supervisor encourages people to see changing
281 environments as situations full of opportunities”. Cronbach’s alpha for the scale was .94.

282 **Task-relevant information elaboration.** We used three items to measure employees’ task-
283 relevant information elaboration: “I often think deeply about things about my job”, “At work, I
284 carefully consider all perspectives in an effort to generate optimal solutions”, and “At work, I
285 carefully consider different information”. The items were adapted from scales for assessing task-
286 relevant information elaboration in a team context (Kearney and Gebert, 2009; Van Dick et al.,
287 2008) to measure an individual’s task-relevant information elaboration at work in general.
288 Cronbach’s alpha was .92.

289 **Innovative work behavior.** We measured innovative work behavior using a scale from De
290 Jong and Den Hartog (2010) including eight items covering the exploration, generation,
291 championing and implementation of ideas at work (two items for each subdimension). For
292 subscales with three items, we used only the two items with the highest factor loadings in the
293 CFA results reported by De Jong and Den Hartog (2010). Sample items included “This employee

294 wonders how things can be improved”, “This employee searches out new working methods,
 295 techniques or instruments”, “This employee finds new approaches to execute tasks”, “This
 296 employee attempts to convince people to support an innovative idea”, and “This employee
 297 contributes to the implementation of new ideas”. Cronbach’s alpha was .96. As multiple
 298 employees’ behaviors were rated by the same supervisors, we found higher ICC (1) values of
 299 innovative work behavior (.27), rendering a need to control for the effect of supervisors’ ratings
 300 in the following analysis.

301 **Control variables.** In addition to including employees’ gender, age, education, and
 302 organizational tenure, we included their proactive personality. We controlled for proactive
 303 personality, or an individual’s tendency to take action to influence their environments (Bateman
 304 and Crant, 1993), because people high in this trait tend to engage in innovative work behavior
 305 (e.g., Wu et al., 2014; Wu and Parker, 2017). A four-item measure of proactive personality
 306 (Cronbach’s alpha=.81) (e.g., Wu et al., 2018) derived from a proactive personality scale
 307 (Bateman and Crant, 1993) was used. A sample item is “No matter what the odds, if I believe in
 308 something I will make it happen”.

309 Results

310 Descriptive statistics

311 Table 1 presents the means, standard deviations, and correlations of the variables. As shown
 312 in the table, felt accountability was positively related to task-relevant information elaboration
 313 ($r=.36, p < .01$) and transformational leadership ($r=.31, p < .01$). In addition, task-relevant
 314 information elaboration was positively correlated with innovative work behavior ($r=.22, p < .05$).

315 =====

316 Insert Table 1 here

317 =====

318 Hypothesis testing

319 Given the nonindependent data structure, we adopted a mixed regression model with
320 maximum likelihood estimation to test our hypotheses. Specifically, we conducted two-level
321 random intercept models in our hypothesis tests using the mixed models procedure in SPSS. In
322 the following analysis, we used grand-mean-centered felt accountability and transformational
323 leadership and their interaction term. By considering the potential variance in supervisor ratings
324 of innovative work behavior, a random effect was introduced for the level-2 intercept to control
325 the effect of supervisors' ratings (Bryk and Raudenbush, 1992). The results are presented in
326 Table 2.

327 We first tested Hypothesis 1 considering the moderation effect of transformational
328 leadership on the association between felt accountability and task-relevant information
329 elaboration. We performed a regression model (Model 1) to examine the direct association
330 between felt accountability and task-relevant information elaboration. We found that their
331 association was not significant ($b = .23, ns$) while controlling for gender, age, organizational
332 tenure, and proactive personality. Next, we additionally included the interaction term of felt
333 accountability and transformational leadership to predict task-relevant information elaboration
334 (Model 2). The results of Model 2 indicated that felt accountability and transformational
335 leadership had a significant interaction effect in predicting task-relevant information elaboration
336 ($b = .19, p < .05$). Figure 2 depicts the pattern of this interaction plot with high (1 SD above the
337 mean) and low (1 SD below the mean) levels of transformational leadership. The plot shows that
338 felt accountability had a significant positive association with task-relevant information
339 elaboration when transformational leadership was high (simple slope = $.40, p < .01$). There was
340 no significant association between felt accountability and task-relevant information elaboration

341 when transformational leadership was low (simple slope = $-.04$, *ns*). The findings support
 342 Hypothesis 1.

343 Next, we tested Hypothesis 2 considering the effect of task-relevant information elaboration
 344 on innovative work behavior (Model 3). We found a significant positive association between
 345 task-relevant information elaboration and innovative work behavior ($b = .20$, $p < .05$) while
 346 controlling for demographic variables, proactive personality, felt accountability, and
 347 transformational leadership. Hypothesis 2 is thus supported.

348 Finally, we tested Hypothesis 3 with the nested-equation path analytic approach (Preacher et
 349 al., 2007; Edwards and Lambert, 2007) and used the coefficients obtained in Model 1, Model 2,
 350 and Model 3 to test conditional indirect effects of task-relevant information elaboration on the
 351 association between felt accountability and innovative work behavior when transformational
 352 leadership was high or low. We estimated the conditional indirect effects and their confidence
 353 levels using the Monte Carlo method (Selig and Preacher, 2008). The results indicated that the
 354 indirect effect was positive and significant when transformational leadership was high
 355 (conditional indirect effect = $.08$, 95% CI = $.003$ to $.192$), and the indirect effect was not
 356 significant when transformational leadership was low (conditional indirect effect = $-.01$, 95% CI
 357 = $-.091$ to $.066$), supporting Hypothesis 3.

358 =====
 359 Insert Table 2, Figure 2 here
 360 =====

361 Discussion

362 In this study, we found that under high transformational leadership, higher felt
 363 accountability can motivate employees to engage in task-relevant information elaboration, which
 364 in turn facilitates their innovative work behavior. This finding suggests that the effect of felt

365 accountability on higher task-relevant information elaboration among employees is context
366 dependent. It should be noted that in the pilot measurement study¹, we found that higher felt
367 accountability was associated with higher task-relevant information elaboration, but we only
368 observed this positive relationship under high transformational leadership in the main study. A
369 potential reason for this difference could be that participants in the pilot study were
370 heterogeneous, as they were from different work contexts, and participants in the main study
371 were homogeneous, as they were from public fitness centers under the Taipei city government.
372 As employees in the main study shared the same governance regulations and policies, the
373 association between their felt accountability and higher task-relevant information elaboration in
374 the sample could have been constrained by the organizational context, which was not the case in
375 the pilot sample. While more studies are needed to further examine this association, the
376 difference between the two studies does not undermine the interpretation or value of the
377 moderation effect of transformational leadership that we found in the main study.

378 **Implications**

379 Our study contributes to the accountability literature by identifying innovative work
380 behavior that expands the scope of the consequences of felt accountability. As we mentioned
381 earlier, felt accountability could be negatively related to extra-role behavior (Mitchell et al., 1998;
382 Hall and Ferris, 2011). In addition, felt accountability has been understood as a work stressor for
383 employees, as it brings social pressures to employees and provokes anxiety (Siegel-Jacobs and
384 Yates, 1996; Hall et al., 2006). For example, employees' felt accountability has been associated
385 with a higher level of job tension (Hall et al., 2006) and negative behavioral outcomes such as
386 escalation behavior (Lerner and Tetlock, 1999; Wolff and Klaus, 2008), decision avoidance
387 (Green et al., 2000), and poor performance (Tan et al., 2002). These findings suggest that felt
388 accountability, though aims to facilitate organizational operation, can bring negative implications

389 on individual performance. In contrast, our findings indicate that felt accountability can interact
390 with transformational leadership to promote employees' active thinking and innovative work
391 behavior. The findings suggest that being accountable can also have positive implications for
392 employee outcomes. This understanding provides new insight in response to the call by Hall et al.
393 (2017) to investigate the positive outcomes of felt accountability.

394 Our study also provides implications for employee innovation and proactivity research. As
395 innovation work behavior can be regarded as a type of proactive work behavior (Parker and
396 Collins, 2010) or behavior aiming to make constructive change to improve the work situation,
397 our study suggests that felt accountability can be an antecedent of employee proactivity. By
398 showing that felt accountability, under transformational leadership, can spur employees'
399 innovation and make them to be proactive, our study is consistent with Full et al.'s (2006)
400 finding that employees are likely to engage in proactive work behaviors when they feel
401 personally accountable for constructive change at work. Nevertheless, more studies are needed to
402 understand how and when accountability practices or felt accountability can promote employees'
403 proactivity at work. Future studies can extend our work by examining different types of
404 proactive work behavior, such as proactivity for individual career development (Parker and
405 Collins, 2010). For example, following the same logic of our theorizing based on role theory, we
406 speculate that felt accountability, again under transformational leadership, could be an intrinsic
407 reason (Parker et al., 2010) that motivates employees to proactively learn skills and acquire
408 knowledge to better serve their work role. In other words, under transformational leadership,
409 employees higher in felt accountability may not only be innovative in performing their work but
410 also be motivated to advance their skills and knowledge.

411 By identifying the contingent effect of transformational leadership in our study, we found
412 that felt accountability can increase task-relevant information elaboration and thus innovative

413 work behavior only at a high level of transformational leadership. This suggests that leadership
414 can play a key role in shaping the effect of felt accountability on employees' thinking and
415 behavior. As leaders exhibiting different leadership styles convey different expectations to
416 employees, future studies should examine the role of different leadership styles in driving the
417 impact of felt accountability on employee outcomes. For example, felt accountability may lead
418 employees to concentrate on details and procedures under an authoritarian leadership style, as
419 authoritarian leaders tend to provide specific instructions and do not allow employees to have
420 input in decision making. As leaders are accountable figures in the workplace, their leadership
421 styles shape the direction of focus and therefore the impact of felt accountability on employees'
422 outcomes. To date, leadership has rarely been discussed in felt accountability research, which we
423 believe is an important avenue for future studies.

424 Our investigation also offers an alternative perspective for understanding the influence of
425 felt accountability on an individual's information processing. While prior studies indicate that
426 felt accountability may direct individuals merely to process information relevant to evaluation
427 criteria (Tetlock, 1983; Schlenker et al., 1994; Tetlock, 1992) and motivate individuals to pay
428 attention to task-irrelevant information in an effort to avoid criticism from the anticipated
429 audience (i.e., dilution effect) (Tetlock et al., 1996), our study suggests that transformational
430 leaders can direct subordinates to focus and even elaborate on information that is relevant to the
431 generation of innovative ideas. Our findings highlight the importance of more thorough
432 considerations of the role of audience characteristics in the relationship between felt
433 accountability and information processing. This perspective is supported by a handful of past
434 studies. For example, Lerner and Tetlock (1999) reported that participants in a condition of pre-
435 decisional accountability to an unknown audience report had increased cognitive complexity and
436 improved judgment. Tetlock et al. (1989) found that participants were likely to align their

437 positions on a controversial issue in accordance with the positions they thought the audience held.
438 Our study adds nuance to this view by directly examining how specific leader expectations (i.e.,
439 transformational leadership) moderate the influence of felt accountability on information
440 processing. That is, employees do not “blindly” elaborate on task-relevant information. They
441 know their supervisors’ preference or position from their leadership style, which is open to
442 innovative ideas. In addition, our finding suggests that employees’ conformance to leaders’
443 preferences does not mean that they are merely cognitive misers, as their elaboration is enhanced
444 when their leaders prefer transformational leadership.

445 Finally, our study offers implications for the literature on HRM and innovation work
446 behavior by supporting the value of using the role of supervisors’ actions to understand the
447 relationship between HRM practices (i.e., accountability) and innovation work behavior.
448 Accountability in HRM practices has been recognized as a critical mechanism for shaping
449 employees’ innovation work behavior (see Bos-Nehles et al., 2017). However, our findings are
450 not only consistent with past studies but also specify the role of supervisor behaviors, which has
451 been underpinned by past studies. For example, previous research demonstrated that increased
452 obligation to innovate by HRM practices was positively associated with innovation work
453 behavior (e.g., Ramamoorthy et al., 2005) and that this association could be stronger when
454 supervisors exhibited feedback and coaching behaviors (e.g., Chang et al., 2013). Our findings
455 highlight that supervisors’ actions or, more specifically, leadership styles can play a critical role
456 in helping HRM practices prominently and clearly transmit role expectations to encourage
457 employees’ appropriate behaviors. This notion indeed echoes the perspective of expectancy
458 clarity that underlines in the HRM literature (Bysted and Hansen, 2015).

459 Several practical implications are worth noting. Our findings reveal that greater
460 transformational leadership matters most for employees with higher felt accountability. As such,

461 the primary way to encourage innovative work behavior is to increase employees' felt
462 accountability, which can be achieved through HRM practices (Hall et al., 2003). For example,
463 managers may build an innovation-oriented performance evaluation and reward (including
464 compensation) system to promote employees' felt accountability to innovate (Bos-Nehles et al.,
465 2017). Moreover, our study also provides practical implications for managers in terms of using
466 transformational leadership to encourage employee innovative work behavior. Because
467 employees with higher felt accountability generally seek and conform to rules/standards and role
468 expectations set by the audience to which they are accountable, managers may articulate a
469 change-oriented expectation and build a safe and supportive environment for stimulating,
470 encouraging, and empowering employees to engage in intellectual thinking (Bass, 1985;
471 MacKenzie et al., 2001) and to try to challenge existing work assumptions (Arnold, 2017). In
472 addition, as employees high in felt accountability tend to view their supervisor as an important
473 figure with respect to role expectations, a direct approach for managers is to serve as role models
474 in their innovative work perspectives, beliefs, values, and conduct as criteria for employees to
475 follow. Based on those managerial practices, employees with higher felt accountability are likely
476 to devote more attention to thinking about work-related information and actively analyzing
477 received information, thereby producing alternative and constructive ideas at work.

478 **Limitations and future research**

479 Despite the strengths of the current study, there are several limitations that should be
480 acknowledged. First, the relatively small sample size in our study might be a limitation, even
481 though the findings are reliable in support of our hypotheses. Second, although we examined the
482 directional relationship between felt accountability and innovative work behavior, using a time-
483 lagged design in this study was insufficient to support a strong causal inference between felt
484 accountability and innovative work behavior. A field study with a longitudinal design or

485 laboratory experimental study is recommended to further test our hypotheses in the future. Third,
486 task-relevant information elaboration and innovative work behavior were assessed at the same
487 time (Time 2), which might increase the threat of common method variance. However, as these
488 two variables were collected from different sources (i.e., task-relevant information elaboration
489 was reported by employees and innovative work behavior was reported by supervisors), we
490 believe that the demonstrated association is robust and is not inflated by common method
491 variance. Fourth, we collected our research data in the Chinese context, which might involve
492 issues regarding the generalizability of our research findings. Because accountability might be
493 culture dependent, people in a collectivistic culture might display more cooperative behaviors,
494 impression management behaviors, or nuanced negotiation construal (Gelfand and Realo, 1999).
495 Moreover, behaviors in relation to challenging the status quo are not encouraged in a
496 collectivistic culture, where people emphasize social harmony (Chen and Miller, 2011).
497 Therefore, future studies are needed to cross-validate the current findings by recruiting
498 participants in countries with individualistic cultures.
499

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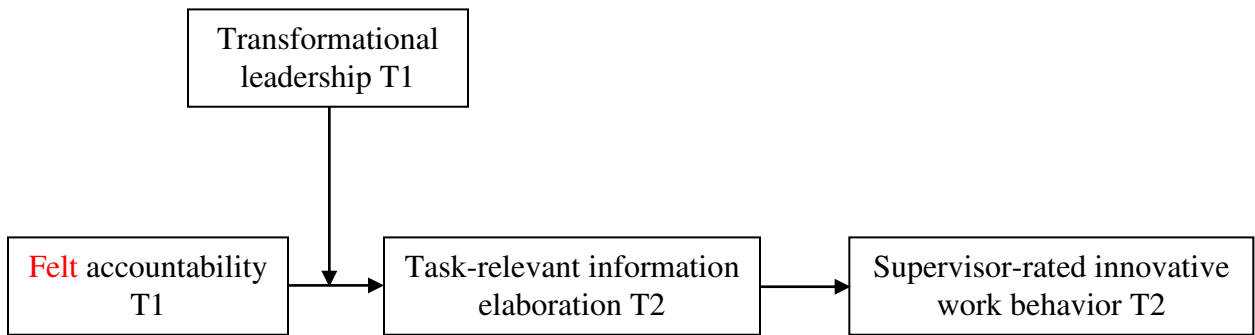
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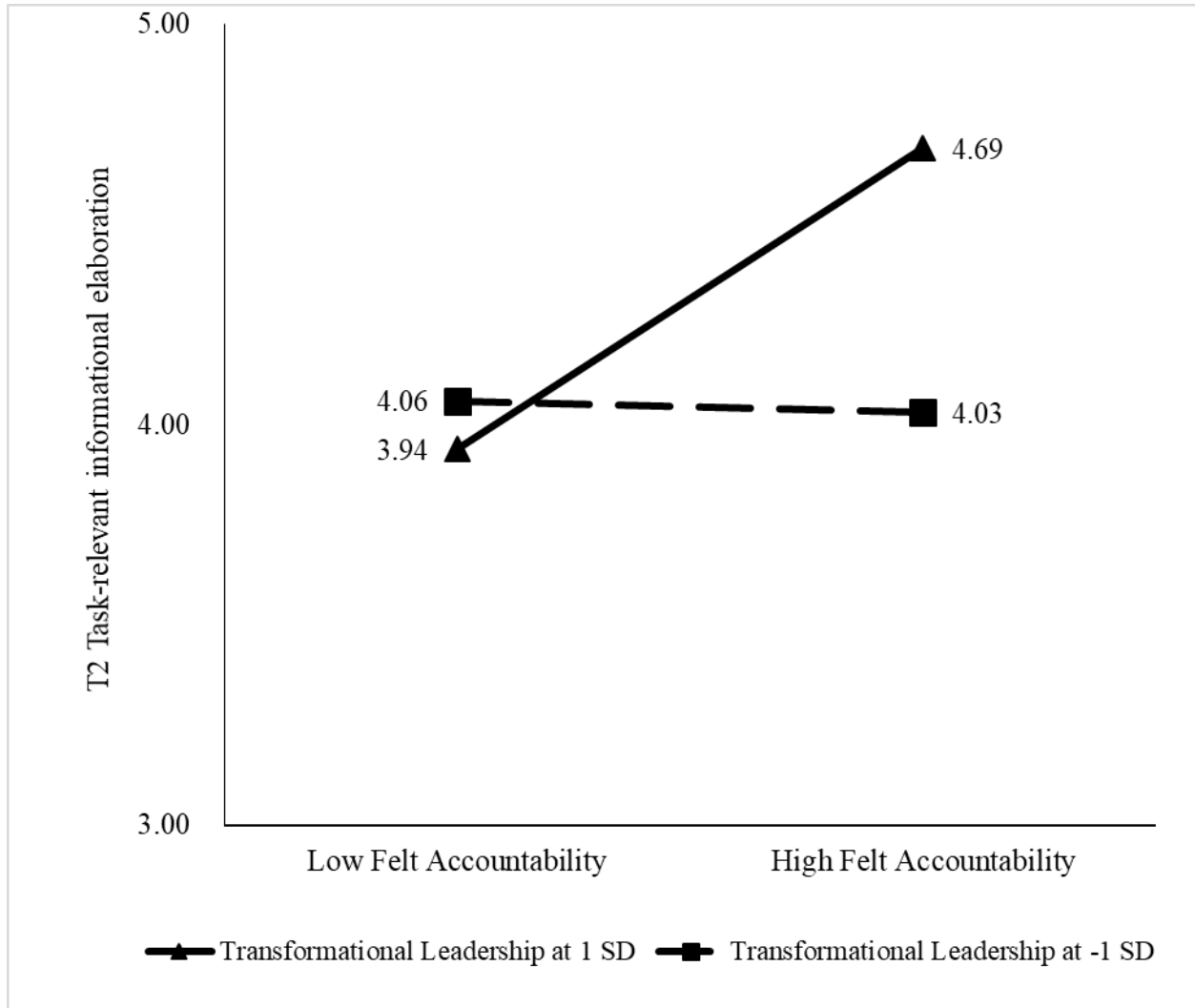
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653 *Figure 1. The research model*

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657 *Figure 2.* Interactive effects of felt accountability and transformational leadership on task-
658 relevant information elaboration at Time 2

659 *Table 1*660 *Descriptive statistics of research variables (n=120)*

	<i>M</i>	<i>SD</i>	Correlations								
			1	2	3	4	5	6	7	8	
1. Gender	-	-	-								
2. Age	32.47	12.13	.09								
3. Education	-	-	-.11	-.55**							
4. Organizational tenure	5.88	7.15	.07	.53**	-.12						
5. Proactive personality	4.97	0.92	-.36**	-.05	-.02	.02					
6. Felt accountability	4.91	0.79	-.23*	.02	.01	.12	.44**				
7. Transformational leadership	4.71	1.15	-.15	-.09	.01	.08	.22*	.31**			
8. Task-relevant informational elaboration	4.97	1.07	-.16	.14	.02	.19*	.38**	.36**	.27**		
9. Innovation work behavior	4.37	1.03	-.02	.11	-.11	.11	.05	.06	-.02	.22*	

661 * $p < .05$, ** $p < .01$.

662 *Table 2*663 *Results of mixed models (B/S.E.) (n=120)*

	Model 1	Model 2	Model 3
Predictors/Outcome	Task-relevant information elaboration	Task-relevant information elaboration	Innovative work behavior
<i>Intercept</i>	4.25(.49)**	4.18(.48)**	4.90(.52)**
Gender	-.03(.18)	-.06(.18)	.04(.19)
Age	.02(.01)	.02(.01)*	-.01(.01)
Education	.26(.17)	.28(.17)	-.19(.18)
Organizational tenure	.01(.01)	.01(.01)	.01(.01)
Proactive personality	.30(.11)**	.31(.10)**	-.09(.11)
Felt accountability	.23(.12)	.18(.12)	.01(.13)
Transformational leadership	.15(.08)	.13(.08)	-.04(.09)
Felt accountability × Transformational leadership		.19(.09)*	
Task-relevant information elaboration			.20(.10)*
<i>-2 restricted log likelihood</i>	318.07	313.59	322.32
<i>Residual</i>	0.77	0.77	0.75
<i>Intercept (variance of residual error for leader)</i>	0.07	0.03	0.21

664 *Note.* Unstandardized coefficients are reported.665 * $p < .05$, ** $p < .01$.