

1 **A Tale of Two Distrusts: Memory Distrust towards Commission and Omission**

2 **Errors in the Chinese Context**

3 Yikang Zhang^{1,2}, Fangzhu Qi¹, Henry Otgaar^{2,3}, Robert A. Nash⁴, and Marko
4 Jellic²

5 ¹ Institute of Psychology and Behavior, Henan University, China

6 ² Faculty of Psychology and Neuroscience, Maastricht University, the
7 Netherlands

8 ³ Faculty of Law and Criminology, KU Leuven, Belgium

9 ⁴ School of Psychology, Aston University, the United Kingdom

10

11

12

13 *In Press, Journal of Applied Research in Memory and Cognition*

14

15 **Correspondence**

16 Correspondence should be addressed to Fangzhu Qi, Institute of Psychology and
17 Behavior, Henan University, Jinming Avenue, 475001, Kaifeng, Henan Province

18 (fzqi@henu.edu.cn) or Yikang Zhang, Faculty of Psychology and Neuroscience,

19 Maastricht University, Universiteitssingel 40, 6229 ER, Maastricht

20 (yikang.zhang@maastrichtuniversity.nl).

21

22 **Author Note.**

23 Yikang Zhang played the lead role in the conceptualization, project administration,
24 data curation, data analysis, and writing of the original draft. Fangzhu Qi played the
25 lead role in funding acquisition and a supporting role in data curation, project
26 administration, and the original draft writing. Henry Otgaar, Robert Nash, and Marko
27 Jelcic played supporting roles in the conceptualization, methodology, original draft
28 writing, and review/ editing.

29

30

Abstract

31 People differ in their skepticism toward their own memories, which is called memory
32 distrust and is measured by the Squire Subjective Memory Questionnaire (SSMQ) and
33 the Memory Distrust Scale (MDS). In Study 1 ($N = 458$), we translated the MDS into
34 Chinese and found that MDS scores were correlated with self-reported memory errors,
35 compliance, and life habits impacting source monitoring, and had acceptable test-retest
36 reliability after four weeks. In Study 2, participants ($N = 383$) completed a recognition
37 task and received false feedback, then they completed the recognition task again, and
38 completed the MDS and SSMQ three days later. High (versus low) memory distrust
39 people were more likely to accept the false feedback and change their memory
40 afterward. The present research confirms the validity of the Chinese MDS, advancing
41 the theoretical understanding of the interplay between meta-memorial beliefs and social
42 influence on memory reconstruction.

43 Keywords: memory distrust, memory errors, compliance

44

45

General Audience Summary

46 The experience of sometimes finding it difficult to trust one's own memory is
47 widely shared. Moreover, some people are more skeptical about their memories while
48 others are less. This individual difference is referred to as trait memory distrust.
49 Memory distrust has been measured with two scales, the Squire Subjective Memory
50 Questionnaire (SSMQ) and the more recent Memory Distrust Scale (MDS). The
51 former emphasizes people's concerns about forgetting one's previous experience
52 while the latter asks how concerned people are about mistakenly remembering
53 something that did not really happen.

54 In the present studies (N = 841), we translated the MDS into Chinese and proved it
55 to be effective in measuring memory distrust. We found that people who score high
56 on the MDS reported having more memory errors and being more compliant with
57 authorities. We also found that people with high memory distrust as measured by the
58 MDS were more likely than people with low memory distrust to accept false
59 feedback, by changing their prior answers in a memory test.

60 In forensic settings where the completeness and veracity of memory reports are
61 crucial, memory distrust could lead to severe consequences, such as wasting public
62 resources if people do not report what they remember, and even miscarriages of
63 justice. Our study provides the first preliminary evidence that memory distrust as
64 measured by the MDS affects how people react to suggestive information, and could
65 therefore be of interest when evaluating eyewitnesses' or suspects' statements. The
66 validation of the Chinese MDS also invites clinical cognition research in the Chinese
67 context, such as studies of the relationship between memory distrust and repeated
68 checking. We encourage researchers to use the tool and further examine the role of

69 memory distrust in forensic and clinical research in China.

71 The experience of sometimes finding it difficult to trust one’s memory is widely
72 shared (e.g., Kuczek et al., 2018; Nash et al., 2022; Otgaar et al., 2019; van Bergen et
73 al., 2010a; Zhang et al., 2022a). Sometimes, as a result of suggestive questioning
74 during police interrogations it can lead to egregious outcomes such as false
75 confessions (i.e., Memory Distrust Syndrome; see Gudjonsson & MacKeith, 1982;
76 Gudjonsson et al., 2014). Moreover, individuals differ in the extent to which they are
77 more vs. less skeptical towards their own memories (Nash et al., 2022; van Bergen et
78 al., 2010a). To measure individual differences in this meta-memorial appraisal, also
79 conceptualized as trait memory distrust, van Bergen et al. (2010a) adapted and
80 validated the Squire Subjective Memory Questionnaire (SSMQ, Squire et al., 1979),
81 which has been employed widely by subsequent research on memory distrust (e.g.,
82 Kuczek et al., 2021; Saraiva et al., 2020; van Bergen et al., 2010b; Zhang et al.,
83 2022a).

84 Recently, researchers argued that the SSMQ alone does not fully capture the
85 construct of trait memory distrust (Nash et al., 2022). More specifically, the SSMQ’s
86 eighteen items (e.g., “My ability to remember things that have happened more than a
87 year ago is”) only tap into people’s distrust insofar that they make memory omission
88 errors, that is, failing to retrieve memories of experiences. However, people can
89 sometimes also have distrust insofar that they make memory commission errors, such
90 as mistaking imagination or dreams as reality (i.e., source monitoring, Johnson
91 & Raye, 1981). People’s beliefs about these types of errors are, however, not captured
92 by the SSMQ. To address this issue, Nash et al. (2022) developed and validated the
93 Memory Distrust Scale (MDS), a new measurement tool that focuses on people’s

94 distrust toward commission errors (e.g., “I am sometimes uncertain whether an event
95 that I recall happened to me, or whether I saw it on TV or in a movie”). Nash et al.
96 (2022) showed that the MDS and SSMQ were both correlated with other meta-
97 cognitive measures such as the Cognitive Failures Questionnaire (CFQ, Broadbent et
98 al., 1982) and that they were only moderately correlated with one another. Moreover,
99 the authors demonstrated that compared with the SSMQ, MDS was a better predictor
100 of people’s ratings of autobiographical belief (i.e., their belief of specific
101 autobiographical events having happened), with people who scored high on the MDS
102 being more likely to report events with lower belief ratings, as compared with their
103 counterparts who scored low on MDS. Nash et al. (2022) recommended that when
104 examining the relationship between memory distrust and other memory phenomena
105 (e.g., the misinformation effect, Loftus et al., 1992; van Bergen et al., 2010b),
106 researchers should use both the SSMQ and the MDS in tandem.

107 **Cultural Differences**

108 Most research on memory distrust has been conducted in Western, Educated,
109 Industrialized, Rich, and Democratic (WEIRD; Henrich et al., 2010) populations (e.g.,
110 Nash et al., 2022; van Bergen et al., 2009, 2010a, 2010b; Zhang et al., 2022a). Yet
111 memory, like other psychological phenomena, is shaped by culture (e.g., Ross &
112 Wang, 2010; Wang, 2021). More specifically, according to the cultural dynamic
113 theory of autobiographical memory, culture influences the encoding, retention, and
114 retrieval of our memories as well as the functions of memory sharing (Wang, 2016).
115 As a consequence, cultural differences extend to the formation of false memories as
116 well. For example, using the Deese-Roediger/McDermott (DRM) paradigm, Wang et
117 al. (2021) showed that European participants formed more self-related false memories

118 than Chinese participants, possibly due to cultural differences in independent versus
119 interdependent self-construal (Markus & Kitayama, 1991). Like false memories more
120 generally, memory distrust has been suggested to be related to people's susceptibility
121 to social influence (Zhang et al., 2022b), which has been found to be shaped by self-
122 construal, with people who are more interdependent exhibiting greater compliance to
123 others (Oeberst & Wu, 2015). Furthermore, it has been argued that judgments of
124 mnemonicity—that is, the attributions of mental representations as being memories—is
125 a result of metacognitive and social construction processes that are influenced by
126 collective norms (Mahr, 2023; Mahr et al., 2022). That is to say, the 'criteria' for what
127 counts as memory may differ across cultures. In short, it may be unreasonable to
128 attempt to apply theory and evidence on memory distrust across diverse cultures
129 without undertaking empirical validation.

130 Beyond the theoretical merits of cross-cultural replications and translation,
131 studying memory distrust in a Chinese context is also important for practical reasons.
132 A recent review on forensic practice in Asia (Le et al., 2023) showed that false
133 confessions and eyewitness identification errors—both plausible consequences of
134 memory distrust—are important causes of wrongful convictions in Asian countries,
135 just as they are in Western countries. Yet Asian countries lack scholarly work on
136 issues pertaining to forensic interviewing and memory (but see Sumampouw et al.,
137 2022), even in China and Japan where such research does exist but remains very
138 limited. The same is true in other applied domains. In the clinical domain, for
139 instance, the role of memory distrust in psychopathology in general (e.g., depression,
140 Schweizer et al., 2018; distress, Mewton et al., 2014), and in obsessive-compulsive
141 disorder in particular (e.g., Coles et al., 2006; Radomsky & Alcolado, 2010; Strauss et
142 al., 2020), has been well studied in WEIRD contexts, yet similar research is only

143 emerging in other cultures such as China (Wong et al., 2022). Given the theoretical
144 and practical importance of studying memory cross-culturally, and the sparseness of
145 applied forensic and clinical research in China, the validation of a Chinese MDS
146 stands to offer insights into how culture shapes the remembering processes, and to
147 provide a large number of non-English-speaking researchers with access to the MDS
148 as a research tool.

149 Zhang et al. (2022b) previously translated the SSMQ into Chinese, which showed
150 good internal consistency and criterion validity. However, to our knowledge, the
151 MDS has yet to be translated into Chinese and validated for relevant research. The
152 present research represents the first effort to translate and validate the Chinese version
153 of the MDS.

154 **Theoretical and Empirical Correlates of Memory Distrust**

155 According to the socio-cognitive model of memory proposed by Scoboria and
156 Henkel (2020), when receiving negative social feedback that contradicts their
157 recollections (e.g., being told that something did not happen), people weigh both the
158 qualities of their internal representations and the qualities of the external feedback,
159 which then determines whether or not they reduce/relinquish their autobiographical
160 beliefs. Building on this model, Zhang et al. (2022b) argued that trait memory distrust
161 could moderate this weighing process, with people who are more skeptical about their
162 memory functioning placing less trust in their internal representations and greater
163 trust in the feedback, as compared with their low memory distrust counterparts.
164 Research has shown that people who score highly on memory distrust—assessed
165 using the SSMQ—exhibit a greater misinformation effect (i.e., committing memory
166 errors after receiving false information) compared with people who score low on

167 memory distrust (van Bergen et al., 2010a; although this effect was not found by
168 Kuczek et al., 2021). Therefore, we expect that people who have high (versus low)
169 memory distrust would be more likely to accept and be influenced by negative
170 feedback that contradicts their memories. Further, as the SSMQ and MDS measure
171 two distinct aspects of memory distrust, we expect that SSMQ scores would moderate
172 people's likelihood of accepting negative feedback about making omission errors (i.e.,
173 when it is suggested that they have forgotten something) whereas MDS scores would
174 moderate the likelihood of accepting negative feedback about making commission
175 errors (i.e. when it is suggested that they have misremembered or falsely remembered
176 something).

177 Previous research conducted in Western cultures showed a positive correlation
178 between memory distrust and susceptibility to compliance (e.g., Nash et al., 2022; van
179 Bergen et al., 2010a). As compliance is more prominent in an interdependent culture
180 such as Chinese culture (Oeberst & Wu, 2015), we expect that both measures of
181 memory distrust would likewise correlate with compliance in the Chinese population.
182 Previous research also showed that memory distrust positively correlates with self-
183 reported memory errors (e.g., Britain: Nash et al., 2022; China: Zhang et al., 2022b).
184 We thus expected that both measures of memory distrust would also be related with
185 self-reported memory errors.

186 **The Present Research**

187 In Studies 1a and 1b, we translated the MDS into Chinese and examined its
188 internal consistency, test-retest reliability, and criterion validity. Moreover, we
189 explored whether memory distrust was related to certain life habits (e.g., TV
190 consumption) that in theory could influence source monitoring (e.g., distinguishing

191 memories from imagination). Taking into consideration that memory is broadly
192 influenced by culture (e.g., Ross & Wang, 2010; Wang, 2021) and that compliance is
193 stronger in cultures with interdependent self-construal (Oeberst & Wu, 2015), we used
194 the data from Nash et al. (2022) to explore potential differences in the factor structure
195 of the MDS in two different cultural contexts (i.e., Britain and China).

196 In Study 2, to test whether memory distrust would predispose individuals to
197 accepting negative social feedback about their memories, we asked participants to
198 complete an online memory task, gave them false feedback on some of their
199 recognition responses, and then asked them to complete the recognition task again.
200 Then we measured their memory distrust three days later to examine whether people
201 who are high on memory distrust would be more likely to accept the false feedback,
202 as compared with people who are low on memory distrust. Both studies were pre-
203 registered (<https://osf.io/m9skg> and <https://osf.io/gmye8>).

204

205

Study 1a

206 **Method**

207 *Ethical Approval*

208 Studies 1a, 1b, and 2 were reviewed and approved by the Institutional Review
209 Board of [Masked Institution] (reference: 20221110001).

210 *Participants*

211 We recruited participants from university participant pools and via social media.
212 To participate in the study, participants had to read the information letter introducing
213 the aim, tasks, and compensation scheme of the study, and provide informed consent.
214 In addition, they also had to be 18 years old or older. Participants were compensated
215 with 4 RMB¹ for the first session and an additional 4 RMB for completing the
216 follow-up session.

217 Following Nash et al. (2022), we planned to recruit at least 400 participants after
218 exclusions, based on a conservative respondent-to-item ratio of 20:1 for exploratory
219 factor analysis (MacCallum et al., 1999). Using G*Power 3.1 (Faul et al., 2009), a
220 sensitivity analysis for bivariate correlation showed that with $\alpha = .05$ and $1-\beta = .95$, a
221 sample of 400 would be needed to reliably detect an effect no smaller than $\rho = .18$.

222 A total of 533 participants completed the first survey and, in accordance with our
223 pre-registration, 74 were excluded for failing at least one attention check (i.e.,
224 participants did not select the required answer when responding to the attention
225 checks). One additional participant was removed due to duplicated responses, leaving
226 the final sample being 458 ($n_{\text{women}} = 254$, $n_{\text{men}} = 203$, $n_{\text{no disclosure}} = 1$). We did not use

¹ RMB is the official currency in the People's Republic of China

227 specific stopping rules and ended the data collection when the number of responses
228 were close to the planned sample size and there were few new signups daily. The
229 average age of the sample following exclusions was 22.55 years ($SD = 3.53$). Nearly
230 all participants had an education level of a college degree or above (97.6%).

231 *Materials*

232 **Squire Subjective Memory Questionnaire (SSMQ, Squire et al., 1979).** The
233 SSMQ as adapted by van Bergen et al. (2010a) is the most widely used measure of
234 memory distrust. It comprises 18 items (e.g., “my ability to pay attention to what goes
235 on around me is” from $-4 = Disastrous$ to $4 = Excellent$) that tap into one single
236 underlying factor about one’s subjective appraisal of one’s memory functioning. The
237 current study employed the Chinese version translated by Zhang et al. (2022b). The
238 scale showed good internal reliability in the current sample (Cronbach’s $\alpha = .92$;
239 McDonald’s $\omega = .94$). Note that a higher score on the SSMQ would indicate a lower
240 level of memory distrust.

241 **Memory Distrust Scale.** To address the issue that the SSMQ’s items focus only
242 on concerns over omission errors (e.g., failing to recall past events), Nash et al. (2022)
243 developed the Memory Distrust Scale (MDS), which emphasizes memory appraisals
244 over commission errors. The MDS consists of 20 items in which participants rate to
245 what extent the items (e.g., “I am sometimes uncertain whether an event that I recall
246 really happened to me, or whether I saw it on TV or in a movie”) are characteristic of
247 themselves ($1 = Strongly disagree$ to $7 = Strongly agree$). Note that a higher score on
248 the MDS would indicate a greater level of memory distrust. The questionnaire was
249 translated into Chinese and translated back to English by two fluent English-Chinese
250 speakers (Y.Z. and M.Z.) to ensure equivalent meaning of the items. There was no

251 significant difference in the meanings of the original and the back-translated version.
252 Therefore, we used the Chinese version (see Table A1 in appendix) translated by Y.Z.
253 in the current studies.

254 **Gudjonsson Compliance Scale.** The Gudjonsson Compliance Scale (GCS,
255 Gudjonsson, 1989) assesses people's self-reported susceptibility to social compliance,
256 comprising 20 items with dichotomous response options ("true" or "false"). An
257 example item is "I give in easily to people when I am pressured". Three of the items
258 are reverse-scored to give a total score ranging from 0 to 20, where higher scores
259 indicate greater compliance. In the present study, we used the Chinese version
260 translated and validated by Oeberst and Wu (2015). The scale showed good internal
261 reliability in the current sample (Cronbach's $\alpha = .80$; McDonald's $\omega = .83$).

262 **Prospective and Retrospective Memory Questionnaire.** The Prospective and
263 Retrospective Memory Questionnaire (PRMQ) is a 16-item validated questionnaire
264 measuring people's self-reported susceptibility to prospective and retrospective
265 memory failures in daily life (Smith et al., 2000; Yang et al., 2022). Participants
266 responded to PRMQ items (e.g., "Do you fail to recognize a place you have visited
267 before?") on a 5-point Likert scale from 1 = *Never* to 5 = *Often*. In the current study,
268 we used the Chinese version that has been validated by Yang et al. (2022). The
269 questionnaire showed good internal reliability in the current sample (Cronbach's α
270 = .92; McDonald's $\omega = .94$). Higher scores in the PRMQ correspond to self-reported
271 higher frequencies of memory errors.

272 ***Procedure***

273 The study was hosted on Qualtrics (<https://www.qualtrics.com/>). After reading
274 the information letter and giving informed consent, participants answered

275 demographic questions including age, gender, and education. Next, they completed
276 the GCS, SSMQ, MDS, and PRMQ, with both the order of these four measures and
277 the order of the items within each measure being random. Subsequently, participants
278 rated four statements assessing their sociometric status (Cronbach's $\alpha = .88$;
279 McDonald's $\omega = .92$) using a 7-point scale (1 = Strongly Disagree, 7 = Strongly
280 Agree); these were 1) I have a high level of respect in others' eyes, 2) Others admire
281 me, 3) I have high social standing, and 4) Others look up to me (Anderson et al.,
282 2012). Finally, participants left their email addresses for receiving the follow-up
283 questionnaire.

284 One month after completing the first survey, participants received the link for the
285 follow-up questionnaire, and completed only the MDS for a second time.

286 *Data Analysis Overview*

287 All data analyses were performed in R (version 4.1.2, R Core Team, 2021). All
288 anonymized datasets and coding scripts are on OSF
289 (https://osf.io/p49yz/?view_only=b1f3cc0996d74822a7696041977a8da5). First, we
290 conducted exploratory factor analyses (EFA) to examine the factor structure of the
291 MDS. After establishing that the Chinese version of the MDS had good reliability and
292 construct validity, we conducted correlational analyses to examine its convergent
293 validity and test-retest validity. For exploratory purposes, we also used the data of
294 Nash et al. (2022) to compare the factor structure and correlational patterns between
295 their British sample and our Chinese sample, to examine potential cultural
296 differences.

297 **Results**

298 *Exploratory Factor Analysis*

299 Item-item correlations of the Chinese version of the MDS were all statistically
300 significant and ranged from $r = .29$ to $.70$, suggesting that there was no issue of poorly
301 correlated items nor severe multi-collinearity. Item-total correlations ranged from r
302 $= .49$ to $.77$, suggesting that all items had responses that varied in line with those for
303 all other items, across the population of items. Therefore, no items needed to be
304 removed.

305 Univariate normality tests (Anderson-Darling Test) showed that all 20 items of
306 the MDS violated the normality assumption ($ps < .001$), with skewness ranging from -
307 0.40 to 0.68 and kurtosis ranging from -1.29 to -0.50 . A Henze-Zirkler test (HZ =
308 1.29 , $p < .001$) and Mardia test of multivariate skew and kurtosis (skew = 3444.34 , p
309 $< .001$; kurtosis = 36.24 , $p < .001$) also indicated multivariate non-normality. The
310 Kaiser-Meyer-Olkin criterion (KMO = $.97$) and Bartlett's test of sphericity, $\chi^2(190) =$
311 6058.11 , $p < .001$, showed that the data were suitable for factor analyses. Taking into
312 consideration of the above-mentioned results, we proceeded with exploratory factor
313 analyses (EFA) using Weighted Least Square estimator with robust standard errors
314 (WLSMV), which is more appropriate for non-normal data than other approaches
315 such as Maximum Likelihood (Sellbom & Tellegen, 2019).

316 We performed a series of tests (e.g., Empirical Kaiser criterion and Parallel
317 analysis) to identify an appropriate number of retained factors (for details, see
318 [analysis output –factor selection](#)), with a one-factor solution being recommended
319 most often (5 out of 12 tests), followed by the three-factor solution (4 out of 12). First,
320 a three-factor solution was extracted with oblimin rotation, which allows correlations
321 between factors. The result showed that only Items 1 and 2 had a loading larger

322 than .30 on the third factor, which explained 3% of the variance. Therefore, the three-
323 factor solution was deemed not practically meaningful.

324 The two-factor oblimin solution revealed two meaningful factors with a
325 correlation of .74. Seventeen items had loadings greater than .30 on Factor 1, which
326 explained 40.9% of the total variance. Nine items had loadings greater than .30 on
327 Factor 2, explaining 15.2% of the variance (See Table A1 in the Appendix). A closer
328 examination of the items suggested that Factor 1 taps more into the social aspects of
329 memory distrust (e.g., “Other people’s memories are usually more accurate than my
330 own memories.”) and Factor 2 taps more into source monitoring (e.g., “I am
331 sometimes uncertain whether an event that I recall really happened to me, or whether
332 I saw it on TV or in a movie.”). Notably, our result differs from Nash et al. (2022),
333 whose analyses led them to prefer a one-factor solution, but whose initial examination
334 of a two-factor solution indicated that the more social aspects of memory distrust
335 loaded more onto the second, minor factor. This difference between samples may hint
336 at cultural differences in memory distrust between the Chinese and the British
337 samples; we return to this possibility shortly.

338 Finally, we extracted the one-factor solution. All items showed adequate loading
339 (from .49 to .79) on the factor, which explained 52.5% of the variance. Taking into
340 consideration the principle of parsimony, and that 5 out of 12 factor selection tests
341 suggested the one-factor solution (similar to Nash et al., 2022), we decided to adopt
342 the one-factor solution for subsequent analyses, the pattern matrix for which is
343 presented in Table 1. The MDS showed great internal reliability (Cronbach’s $\alpha = .96$;
344 McDonald’s $\omega = .96$).

345

Table 1

346

Item-Total Correlations (ITC), Communalities (h^2), and Pattern Matrix for the Memory Distrust Scale Item

	Scale Items	ITC	h^2	Factor loading
1	I often look for physical evidence, such as photographs, to check whether things really happened the way I remember them.	.49	.24	.49
2	I often turn to other people to help me decide whether my memories are accurate.	.66	.44	.67
3	I tend to question my memories of past events if other people do not corroborate what I remember.	.76	.60	.78
4	Sometimes I distrust my own memories if I cannot find any physical evidence to confirm what I remember.	.72	.55	.74
5	I often have difficulty distinguishing events I remember from those I only imagined.	.77	.63	.79
6	I am often unsure whether something that I recall genuinely happened, or whether I only thought or dreamed about it.	.70	.52	.72
7	I believe some of my memories may have originated entirely from my imagination.	.66	.46	.68
8	I am sometimes uncertain whether an event that I recall really happened to me, or whether I saw it on TV or in a movie.	.65	.44	.66
9	Other people sometimes describe past events in ways that make me doubt my own recollection of those events.	.65	.43	.66
10	I could be easily persuaded that an event I remember is impossible.	.75	.59	.77
11	If another person contradicts my recollection of the past, they are probably correct.	.75	.59	.77
12	Under the right circumstances, I could be persuaded that any one of my memories was completely false.	.67	.48	.69
13	I generally have more trust in other people's recollections of events than in my own recollections.	.75	.60	.78
14	I often trust other people's descriptions of a past event, even if I have a very different recollection of what happened.	.74	.58	.76
15	Other people's memories are usually more accurate than my own memories.	.77	.63	.79
16	My memories are rarely a very accurate reflection of what truly occurred.	.72	.55	.74
17	My memories of past events are unreliable.	.71	.53	.73
18	I cannot always be confident that my memories accurately reflect what really happened.	.72	.55	.74
19	I have little trust that many of the events I remember did really occur.	.76	.62	.79
20	I sometimes distrust that certain experiences I remember really happened at all.	.69	.50	.71

347

348 **Criterion Validity**

349 As shown in Table 2, the MDS had statistically significant correlations with the
 350 PRMQ, GCS, and SSMQ. Moreover, the correlation between the MDS and SSMQ
 351 was moderate, supporting the notion that these two tests measure distinct aspects of
 352 memory distrust. The SSMQ but not the MDS had a moderate correlation with
 353 sociometric status, possibly because SSMQ also taps into a more general self-efficacy
 354 by using phrases like “my ability to remember”. Consistent with Nash et al. (2022),
 355 the MDS had a weak-to-moderate negative correlation with age. However, we did not
 356 detect a statistically significant correlation between SSMQ and age. One possible
 357 explanation is that the current sample lacked variation in the age range. In sum, the
 358 results showed that the MDS had good criterion validity.

359 **Table 2**

360 *Means, standard deviations, and correlations with 95% confidence intervals*

Variable	<i>M</i>	<i>SD</i>	1	2	3	4	5
1. MDS	3.38	1.20					
2. SSMQ	1.62	1.09	-.35** [-.43, -.27]				
3. PRMQ	2.24	0.67	.61** [.55, .67]	-.48** [-.55, -.40]			
4. GCS	0.65	0.21	.33** [.24, .41]	-.28** [-.37, -.20]	.22** [.13, .31]		
5. Social Status	4.23	1.14	-.05 [-.14, .05]	.46** [.38, .53]	-.20** [-.28, -.11]	-.23** [-.32, -.15]	
6. Age	22.56	3.53	-.17** [-.25, -.08]	.05 [-.04, .14]	-.05 [-.14, .04]	-.01 [-.10, .08]	-.01 [-.10, .08]

361 *Note.* *M* and *SD* are used to represent mean and standard deviation, respectively. Values in square
 362 brackets indicate the 95% confidence interval for each correlation. PRMQ = Prospective and
 363 Retrospective Memory Questionnaire; GCS = Gudjonsson Compliance Scale; SSMQ = Squire
 364 Subjective Memory Questionnaire; MDS = Memory Distrust Scale.
 365 * indicates $p < .05$. ** indicates $p < .01$.

366 *Exploratory Analysis: Measurement Invariance Testing*

367 As highlighted by the difference in item loadings in the two-factor EFA between
368 the Chinese sample and the British sample, there could be cultural differences in the
369 construct of memory distrust between China and the UK. Since the one-factor model
370 will likely be most commonly used by researchers, and because it is important to
371 examine whether the scores can be directly compared cross cultures, we performed
372 measurement invariance (MI) testing for the selected one-factor model to examine
373 whether and to what extent the MDS is interpreted in the same way across different
374 groups of individuals (Putnick & Bornstein, 2016). For the first model (M1), all the
375 loadings and intercepts were freely estimated in both groups. The second model
376 restricted the item loadings to be equal, testing metric invariance (i.e., Do the items
377 load on to the latent construct in the same way across groups?), while the third model
378 restricted both loadings and intercepts to be equal between the two groups, testing
379 scalar invariance (i.e., Do the items have same intercepts across groups?).

380 The results are presented in Table 3. M1 showed an acceptable fit, with CFI
381 = .931, RMSEA = .058, and SRMR = .042, indicating configural invariance, that is,
382 the organization of the construct was same across groups. All items showed adequate
383 loading on the factor, ranging from .493 to .805 (standardized) across groups.
384 According to the recommendation of Chen (2007), for analyses with adequate sample
385 size (total N > 300) and equal sample size across groups, a $\Delta CFI \leq -.010$,
386 supplemented by a $\Delta RMSEA \geq .015$ or a $\Delta SRMR \geq .030$ would indicate metric non-
387 invariance. For testing scalar invariance, a $\Delta CFI \leq -.010$, supplemented by a
388 $\Delta RMSEA \geq .015$ or a $\Delta SRMR \geq .010$ would indicate scalar non-invariance. Based on
389 our analyses then, we concluded that MDS achieved metric invariance in the Chinese
390 and UK sample, but scalar invariance was rejected. This means that the underlying

391 factor across groups had the same unit (i.e., an increase of 1 in the MDS items has the
392 same meaning across groups) but the intercepts of the items were different. For
393 example, this could mean that participants in China tend to react with higher
394 agreement to some items compared with British participants.

395 **Table 3**396 *Measurement Invariance Testing across Chinese and UK Samples*

Model	df	χ^2	$\Delta\chi^2$	Δ df	p	CFI	RMSEA	SRMR	Δ CFI	Δ RMSEA	Δ SRMR
M1	340	318.71	-			.931	.059	.042	-	-	-
M2	359	715.62	106.10	19	<.001	.923	.060	.063	-.008	.001	.021
M3	378	916.91	389.47	19	<.001	.896	.068	.071	-.027	.008	.008

397

399 **Participants and Procedure**

400 Four weeks after the data collection of Study 1a, we sent the follow-up survey via
401 email to all participants whose data were included in Study 1a, and received 301
402 responses in total. Three people failed the attention check and were left out of the
403 analyses, leaving a sample of 298 participants ($n_{\text{woman}} = 178, 59.7\%$; $M_{\text{age}} = 22.56$,
404 $SD_{\text{age}} = 3.37$). In the follow-up survey, we included the MDS as well as several ad-
405 hoc questions about participants' daily habits for exploratory purposes only (see Table
406 4). Participants responded to all items on a 7-point scale from 1 = strongly disagree to
407 7 = strongly agree.

408 **Results**

409 The internal consistency of the Chinese MDS was again very good (Cronbach's α
410 = .95, McDonald's $\omega = .96$). Correlation analyses showed that the Chinese version of
411 the MDS had adequate test-retest reliability, $r(297) = .70, 95\% \text{ CI } [.64, .75]$, similar
412 to the results of Nash et al. (2022). Moreover, as shown in Table 5, memory distrust
413 measured by the MDS had stable correlations with both the SSMQ and age. Overall,
414 the Chinese MDS has good internal reliability, adequate test-retest reliability, and
415 good criterion validity.

416 *Exploratory analyses*

417 Exploratory analyses showed that certain life habits were related to memory
418 distrust. Participants who reported that they had a more organized daily life had lower
419 memory distrust, as indicated by the lower MDS score and higher SSMQ scores, than

420 participants reporting a less organized daily life. On the other hand, people who
421 consumed more TV or movie products had higher scores on the MDS, but not on the
422 SSMQ, than their counterparts with lower TV consumption, which given that we
423 might expect TV consumption to be associated with source monitoring errors, is
424 consistent with the fact that the MDS measures memory distrust toward making
425 commission errors. Finally, the affordance of corroborative memory cues (i.e., being
426 able to find corroborative cues for one's memories) was associated with lower
427 memory distrust.

428 One puzzling result is that SSMQ was positively related to all habits except for
429 the consumption of movies or TV products. However, this does not mean that these
430 habits are necessarily related to memory distrust. Since sociometric status was also
431 positively associated with SSMQ and the endorsement of the habits with the
432 exception of consuming TV (see
433 https://osf.io/jgnez?view_only=b1f3cc0996d74822a7696041977a8da5), we
434 performed regression analyses examining whether these habits predicted SSMQ after
435 controlling for sociometric status. When status was controlled for, only being
436 organized ($B = 0.12, SE = 0.037, p = .001$) and the affordance of memory cues ($B =$
437 $0.24, SE = 0.055, p < .001$) were associated with higher SSMQ scores (i.e., greater
438 memory trust). Taken together, the analyses suggested that memory distrust could be
439 influenced by a person's habits and life structures. However, due to the exploratory
440 nature of these analyses, we caution against drawing strong conclusions from the
441 current results.

442 **Table 4**

443 *Exploratory Items Probing Life Habits*

Items Assessing Participants' Habits for Exploratory Purpose

1 Organized	My daily life is routinized and organized
2 Interact with people	I interact with many different people daily
3 Reading	I spend lots of time reading literature
4 TV or movie	I spend lots of time watching TV series or movies
5 Social Media	I tend to use social media to record my life
6 Memory Cues	Generally, I can find cues that corroborate my daily experiences

444

445

Table 5

446

Means, standard deviations, and correlations with confidence intervals

Variable	<i>M</i>	<i>SD</i>	1	2	3	4	5	6	7	8	9
1. 2 nd MDS	3.31	1.10									
2. MDS	3.33	1.10	.70**								
			[.64, .75]								
3. SSMQ	1.60	1.00	-.43**	-.41**							
			[-.52, -.33]	[-.50, -.31]							
4. Age	22.56	3.37	-.18**	-.17**	.12*						
			[-.29, -.07]	[-.28, -.06]	[.01, .24]						
5. Organized	4.87	1.50	-.12*	-.01	.28**	.08					
			[-.23, -.00]	[-.12, .11]	[.17, .38]	[-.04, .19]					
6. Interact with people	4.16	1.58	.02	.11	.22**	-.05	.20**				
			[-.09, .14]	[-.00, .22]	[.11, .33]	[-.16, .06]	[.09, .31]				
7. Reading	3.94	1.54	-.12*	-.03	.23**	-.07	.13*	.32**			
			[-.23, -.00]	[-.14, .08]	[.12, .34]	[-.18, .04]	[.01, .24]	[.22, .42]			
8. TV or movie	4.13	1.64	.17**	.14*	.05	-.12*	.08	.06	.14*		
			[.05, .28]	[.02, .25]	[-.07, .16]	[-.24, -.01]	[-.04, .19]	[-.05, .18]	[.03, .25]		
9. Social Media	4.37	1.73	.04	.11	.13*	-.13*	.18**	.27**	.23**	.16**	
			[-.08, .15]	[-.01, .22]	[.02, .24]	[-.24, -.01]	[.07, .29]	[.17, .38]	[.12, .33]	[.04, .26]	
10. Memory Cues	5.10	1.02	-.23**	-.20**	.36**	.09	.16**	.19**	.21**	.02	.28**
			[-.34, -.12]	[-.30, -.08]	[.26, .46]	[-.03, .20]	[.05, .27]	[.08, .30]	[.10, .32]	[-.09, .13]	[.17, .38]

447

448

Note. *M* and *SD* are used to represent mean and standard deviation, respectively. Values in square brackets indicate the 95% confidence interval for each correlation. * indicates $p < .05$. ** indicates $p < .01$.

449

Study 2

450 Study 1 established that the Chinese MDS has good internal consistency and
451 adequate test-retest reliability across a one-month interval. In Study 2, we further
452 tested the criterion validity (convergent and discriminant) of the MDS, by asking
453 three questions. First, is memory distrust (measured by both the MDS and the SSMQ)
454 related to the acceptance of false social feedback about making memory
455 commission/omission errors? Second, does the MDS have a stronger association
456 (compared with the SSMQ) with the acceptance of feedback about making
457 commission errors? And third, does the SSMQ have a stronger association (compared
458 with the MDS) with the acceptance of feedback about making omission errors?

459 **Method**

460 *Participants*

461 We recruited Chinese participants from university participant pools and via social
462 media. The study was hosted on Qualtrics. To participate in the study, participants
463 were required to read the information letter introducing the aim, tasks, and
464 compensation scheme of the study, and to provide informed consent. Furthermore,
465 they had to be over 18 years old and not from a psychology major. Participants were
466 compensated with 10 RMB. To incentivize participants to perform well in the
467 recognition tasks, we also offered a 5-RMB bonus for participants who ranked in the
468 top 10% of scorers in these tasks.

469 Following Nash et al. (2022), we planned to recruit at least 400 participants after
470 exclusions. We planned to oversample during the first part of the experiment with the
471 expectation that there would be enough valid entries after dropouts and exclusions in

472 the second part of the experiment. A total of 475 participants completed the memory
473 task, the first part of the experiment (see Procedure for details) but only 407
474 completed the trait measures. Among the 407 participants who completed both parts
475 of the experiment, 24 failed at least one attention check. Thus, the sample that
476 contains both memory task results and trait measures comprised 383 individual data
477 entries ($n_{\text{women}} = 204$, $n_{\text{men}} = 176$, $n_{\text{no disclosure}} = 3$). Using G*Power 3.1 (Faul et al.,
478 2009), a sensitivity analysis for bivariate correlation showed that with $\alpha = .05$ and $1-\beta$
479 $= .95$, a sample of 383 could reliably detect an effect no smaller than $\rho = .18$. The
480 average age of the complete sample following exclusions was 22.2 ($SD = 4.33$).
481 Nearly all participants had an education level of a college degree or above (96%).

482 **Materials**

483 **Stimuli for the Memory Task.** A total of 40 mildly positively valenced color
484 images were selected from the OASIS, an open-access stimulus set with normative
485 ratings for valence and arousal on 7-point scales (Kurd et al., 2017). The stimuli from
486 OASIS depict a broad spectrum of natural or social situations (e.g., buildings or car
487 accidents). Twenty scenes were used in Session 1 for encoding (hereafter referred to
488 as old scenes), as described below. For the recognition tasks in Sessions 2 and 3, 40
489 scenes (20 old ones and 20 new ones) were presented to participants. One-way
490 ANOVAs showed that the old and new stimuli did not differ on valence, $M_{\text{old}} = 4.95$,
491 $SD_{\text{old}} = 0.80$; $M_{\text{new}} = 4.69$, $SD_{\text{new}} = 0.62$, $F(1, 38) = 1.26$, $p = .268$, $\eta_p^2 = .03$, or
492 arousal scores, $M_{\text{old}} = 2.95$, $SD_{\text{old}} = 0.87$; $M_{\text{new}} = 2.86$, $SD_{\text{new}} = 0.66$, $F(1, 38) = 0.12$,
493 $p = .734$, $\eta_p^2 = .003$.

494 **Memory Distrust.** We employed the Chinese MDS and Chinese SSMQ to
495 measure memory distrust, as in Study 1. Both scales showed good internal reliability

496 in the current sample (SSMQ: Cronbach's $\alpha = .94$, McDonald's $\omega = .95$; MDS:
497 Cronbach's $\alpha = .95$, McDonald's $\omega = .96$). For each scale, we calculated the mean
498 score of all items and used it as the index of memory distrust.

499 *Procedure*

500 After reading the information letter and giving informed consent, participants
501 viewed 20 scene images, one at a time and in randomized order. Each scene was
502 presented for 5 seconds. After all scenes had been viewed, participants completed 20
503 addition/subtraction problems², and they then moved on to the first recognition task in
504 which 20 old scenes and 20 new scenes were presented one at a time in a random
505 order without a time limit. In the recognition task, participants were first asked to
506 indicate whether a scene was old or new, after which they were shown feedback on
507 the screen for 5 seconds, which supposedly communicated the recognition response
508 given to that same image by another, randomly selected participant from the study.
509 Participants were told that all participants saw the same set of scenes, but that their
510 responses might differ from one another and they were instructed to pay attention to
511 the feedback. In reality, all the feedback was pre-determined with a probability of
512 25% being false. That is, for old scenes, the algorithm had a 25% probability of
513 falsely advising participants that the previous participant had judged the stimulus as
514 new. For new scenes, the algorithm had a 25% probability of falsely advising
515 participants that the previous participant had judged the stimulus as old.

516 Immediately after the first recognition task, participants completed another 20
517 math problems as a distraction, and then completed the second recognition task. This
518 second recognition task was the same as the first, except that participants only made

² We did not record the duration of the distraction tasks. Estimated completion time is 3-5 minutes.

519 old-new judgments without receiving feedback.

520 Three days after the memory tasks, participants received the trait measures survey
521 via email. After completing the MDS and SSMQ, participants answered demographic
522 questions about their age, gender, and education level. Then they answered four
523 questions: 1) “To what extent did you find the experiment procedures difficult to
524 understand?” (1 = not difficult at all, to 7 = very difficult); 2) “How serious were you
525 when completing the experiment?” (1 = not serious at all, to 5 = very serious)³; 3)
526 “What do you think is the purpose of the experiment?” (Open-ended); 4) “Did you
527 notice any errors in the experiment or do you have any suggestions to improve the
528 experiment?” (open-ended).

529 After the data collection was completed, we calculated and ranked the accuracy
530 for each participant based on the first recognition task, since their initial old-new
531 responses were made prior to the feedback. We then paid participants their
532 compensation and the bonus where applicable, and debriefed them.

533 *Data Analysis Overview*

534 First, we ran a confirmatory factor analysis to validate the one-factor solution of
535 the MDS in a second sample. Then we examined whether providing false feedback in
536 the first recognition task would increase the chance of participants making errors of
537 commission (in the case of identifying new stimuli) or omission (in the case of
538 identifying old stimuli) in the second recognition task. More specifically, for the latter
539 we used the lme4 package (Bates et al., 2014) to run generalized linear mixed models
540 (GLMM) with the recognition outcome (correct vs. incorrect) as the dependent
541 variable, and whether false feedback had been provided on that item (yes vs. no) as

³ No participant reported being not serious (all scores ≥ 3)

542 the fixed effect. For random effects, we included random intercepts for Participant ID
543 and Scene ID.

544 To test our hypotheses that memory distrust is related to the acceptance of false
545 feedback, we ran additional separate generalized linear mixed models for recognition
546 outcomes of old vs. new stimuli, with false feedback, memory distrust (either SSMQ
547 or the MDS), and their interaction terms as fixed effects, and we included random
548 intercepts for Participant ID and Scene ID in both models. Furthermore, we then
549 compared the power of the SSMQ and MDS to predict commission errors and
550 omission errors.

551 Less central to the main purpose of the study, we also calculated participants'
552 accuracy in the first recognition task for both old and new stimuli, and used pairwise
553 correlation and multivariate regression analyses to examine the associations of these
554 accuracy scores with memory distrust.

555 **Results**

556 *Confirmatory Factor Analysis*

557 As shown in the EFA in Study 1, the adopted one-factor solution showed adequate
558 item loadings for all 20 items. Using the data from Study 2, we conducted a
559 confirmatory factor analysis for this one-factor model based to further test its validity.
560 Similar to Study 1, we used the WLSMV estimator since the Study 2 data also
561 violated the multivariate normality assumption (Mardia test: skew = 3792.20, p
562 < .001; kurtosis = 37.49, p < .001). The chi-squared test for the one factor model was
563 statistically significant, $\chi^2(190) = 309.35$, p < .001. However, due to its
564 oversensitivity to sample size, the chi-squared test was not used to evaluate the model
565 fit. Model fit indices (CFI = .952, TLI = .947, RMSEA = .046, SRMR = .043)

566 suggested that the model had good fit (Hu & Bentler, 1999). We thus conclude that
567 the one-factor model was validated in an independent sample.

568 *Correlation between Memory Distrust and Memory Performance*

569 As shown in Table 7, we replicated the moderate correlation between MDS and
570 SSMQ, as well as the negative correlation between MDS and age. Participants'
571 accuracy was high across both recognition tasks. Moreover, the recognition accuracy
572 of old stimuli (i.e., the Hit rate) and of new stimuli (i.e., the Correct Rejection rate)
573 were only moderately correlated. The MDS had a negative weak-to-moderate
574 correlation with the recognition of old stimuli, but not with the recognition of new
575 stimuli.

576 To further examine the association between memory distrust and memory
577 performance, we computed the Signal Detection Theory (SDT, Green & Swets, 1966)
578 indices d' and β . Note, however, that the SDT analysis was not pre-registered and is
579 thus exploratory. A higher d' would indicate higher sensitivity when distinguishing
580 old scenes from new scenes, while β reflects an observer's bias to say 'old' vs. 'new',
581 with the unbiased observer having a value around 1.0. A higher β would indicate a
582 more conservative criterion biased toward saying 'new'. Results showed that the
583 MDS was negatively correlated with d' ($r = -.18$, 95% CI [-.27, -.08]) but positively
584 correlated with β ($r = .19$, 95% CI [.09, .28]) in the first recognition test. The opposite
585 pattern was found for the SSMQ, d' : $r = .07$, 95% CI [-.03, .17]; β : $r = -.16$, 95% CI
586 [-.25, -.06]). Regression analysis showed that when both the MDS and SSMQ were
587 entered into the model, only the MDS ($B = 0.19$, $SE = 0.07$, $p = 0.009$) but not the
588 SSMQ ($B = -0.13$, $SE = 0.07$, $p = 0.090$) was a significant predictor of β . We found
589 similar results for the regression analysis for d' , with only MDS being a statistically

590 significant predictor ($B = -0.16$, $SE = 0.05$, $p = 0.002$). The results lend support to the
591 idea that people who are more concerned with making commission errors may be
592 biased to say 'new' in memory recognition tests.

593

Table 7

594

Accuracy and Memory Distrust

Variable	<i>M</i>	<i>SD</i>	1	2	3	4	5	6
1. SSMQ	1.64	1.14						
2. MDS	3.38	1.19	-.42** [-.50, -.34]					
3. Hits_1st	0.87	0.15	.09 [-.01, .19]	-.23** [-.32, -.13]				
4. Correct_Rejections_1st	0.91	0.15	-.02 [-.12, .08]	-.05 [-.15, .05]	.43** [.35, .50]			
5. Hits_2nd	0.89	0.13	.04 [-.06, .14]	-.17** [-.27, -.07]	.83** [.80, .85]	.42** [.35, .49]		
6. Correct_Rejections_2nd	0.81	0.23	.03 [-.07, .13]	-.09 [-.19, .01]	.45** [.38, .52]	.71** [.66, .75]	.31** [.22, .39]	
7. Age	22.20	4.33	-.05 [-.15, .05]	-.13* [-.22, -.03]	.04 [-.06, .14]	.03 [-.07, .13]	.02 [-.08, .12]	-.04 [-.14, .06]

595

596

Note. *M* and *SD* are used to represent mean and standard deviation, respectively. Values in square brackets indicate the 95% confidence interval for each correlation. * indicates $p < .05$. ** indicates $p < .01$.

597 *The Effect of False Feedback on Memory Omission and Commission Errors*

598 Generalized linear mixed models (GLMM) showed that false feedback had a
599 negative impact on the correct recognition of old stimuli in the second recognition
600 task, $B = -0.24$, $SE = 0.08$, $p = .002$. However, it only explained very limited variation
601 (Pseudo- $R^2 = .002$). False feedback also had a negative effect on the correct
602 recognition (i.e., rejection) of new stimuli, $B = -0.32$, $SE = 0.07$, $p < .001$ (Pseudo- R^2
603 $= .003$). To test the robustness of these results, we included the recognition outcome
604 of the same stimulus in the first recognition task as a control variable, and ran two
605 additional models. The two models revealed similar results that participants were
606 more likely to make an incorrect recognition response after being exposed to false
607 feedback, regardless whether or not they made the correct response in the first test
608 (Old Stimuli: $B = -0.46$, $SE = 0.10$, $p < .001$; New Stimuli: $B = -0.34$, $SE = 0.07$, p
609 $< .001$). These results showed that the experimental manipulation of false feedback was
610 successful.

611 *The Moderation effect of Memory Distrust*

612 We next proceeded with examining whether memory distrust (measured by the
613 Chinese MDS and the Chinese SSMQ) moderated the effects of false feedback on
614 errors of omission and commission. Per our preregistration, we included false
615 feedback, memory distrust (either the MDS or the SSMQ), and their interaction terms
616 as fixed effects and we included random intercepts for Participant ID and Scene ID in
617 all GLMMs. Results showed that for the recognition of old stimuli, the interaction
618 between false feedback and MDS was not significant, albeit was in the predicted
619 direction, $B = -0.16$, $SE = 0.08$, $p = .065$. When the recognition result of the first task
620 was controlled for (exploratory), the interaction term became significant, $B = -0.26$,

621 $SE = 0.10, p = .015$, with the effect of false feedback on omission errors being greater
622 among participants with higher MDS scores. As for the SSMQ, the interaction term
623 did not reach the conventional significance level whether the first recognition
624 outcome was controlled for ($B = 0.18, SE = 0.10, p = .079$) or not ($B = 0.11, SE = 0.08,$
625 $p = .197$), thus rejecting the possibility that the effect of false feedback on omission
626 errors differed among participants who scored high or low on SSMQ.

627 As for the recognition outcome of new stimuli, neither the interaction of false
628 feedback with MDS score ($B = 0.05, SE = 0.08, p = .502$) nor with SSMQ score ($B =$
629 $0.11, SE = 0.08, p = .197$) was a significant predictor. The same pattern held when the
630 first recognition outcome was controlled for (MDS: $B = 0.08, SE = 0.08, p = .322$;
631 SSMQ: $B = -0.12, SE = 0.08, p = .122$). That is, the effect of false feedback on
632 commission errors in the second test did not differ between people who were either
633 high or low on memory distrust.

634 **Exploratory Analysis.** To further test the potential moderation effect of memory
635 distrust, we excluded 30 participants who correctly guessed the purpose of the
636 experiment (e.g., “to examine the effect of others’ memory on one’s memory report”)
637 and re-ran the above GLMM analyses. Results again showed that the interaction
638 between MDS and false feedback was a significant negative predictor of correct
639 recognition of old stimuli ($B = -0.18, SE = 0.09, p = .039$). That is, the effect of false
640 feedback on omission errors in the second test was greater among participants who
641 scored higher on MDS than their counterparts who scored lower on MDS. We did not
642 detect a significant interaction between MDS and false feedback in the case of
643 recognition of new stimuli ($B = 0.04, SE = 0.08, p = .597$). For the models examining
644 the moderating effect of the SSMQ, we did not detect significant interactions in either
645 case (Old stimuli: $B = 0.11, SE = 0.09, p = .193$; New stimuli: $B = -0.08, SE = 0.08, p$

646 =.335). Analyses with the recognition result of the first test as a control variable
647 showed similar results that only the interaction between MDS and false feedback was
648 a significant negative predictor of correct recognition of old stimuli ($B = -0.27$, $SE =$
649 0.11 , $p = .012$).

650 Taken together, these results suggest 1) that high memory distrust as measured by
651 MDS might predispose individuals to accepting false feedback about having made
652 commission errors, and thus to make omission errors in subsequent memory tasks as a
653 result, and 2) that compared with the SSMQ, MDS was a better predictor of accepting
654 the false feedback that one has made commission errors. However, we failed to find
655 support that high memory distrust as measured by SSMQ predisposed people to
656 accepting false feedback about having made omission errors.

657 **General Discussion**

658 How people view, reconstruct, and report their memories can be shaped by their
659 relatively stable beliefs about their own memory functioning, whether these beliefs
660 are accurate or not. The current studies aimed to translate and validate a Chinese
661 version of the MDS, and to empirically examine how memory distrust contributes to
662 the occurrence of commission and omission errors in people's recognition memory
663 reports.

664 First and foremost, the current study provides evidence that the Chinese version
665 of the MDS has excellent internal consistency and adequate test-retest reliability
666 across four weeks, comparable to the English version reported by Nash et al. (2022).
667 As for the criterion validity of the MDS, consistent with Nash et al. (2022), the MDS
668 had a moderate correlation with SSMQ, supporting that both the MDS and the SSMQ
669 measure two related but distinct aspects of memory distrust. Both MDS and SSMQ

670 were also moderately related to the PRMQ, a self-report measure of memory
671 functioning, suggesting that people who are high on memory distrust also tend to
672 report more memory errors. Furthermore, both the MDS and SSMQ had a moderate
673 correlation with the GCS, further establishing the link of memory distrust with the
674 susceptibility to social influence. Interestingly, we also discovered that, unlike the
675 SSMQ, the MDS was unrelated to self-reported social status. One potential
676 explanation is that the items in the SSMQ are framed in terms of ability, and thus are
677 influenced by the general appraisal of one's self-efficacy. We speculate that this
678 unexpected difference could suggest that when examining the relationships between
679 memory distrust and other psychological phenomena, MDS could introduce fewer
680 confounds than the SSMQ.

681 Besides the similarities across the British and Chinese population, we also
682 noticed potential cultural differences in the construct of memory distrust. First, in the
683 two-factor solution of the Chinese MDS, many items tapping into the social aspect
684 (e.g., being persuaded by others' memory) loaded onto the first factor while only a
685 few items emphasizing source monitoring loaded onto the second factor. This result is
686 inconsistent with the result of Nash et al. (2022) that the second smaller factor was
687 associated with memory distrust related to social influence, thus hinting that social
688 influence may play a more important role in memory distrust in the Chinese
689 population. Further measurement invariance tests showed that although all items
690 loaded on the latent construct similarly across the two populations, the intercepts of
691 the items were different. This means that one group tends to agree with (some of) the
692 statements more than the other group, and that it is therefore not appropriate to
693 compare latent means between groups.

694 Exploratory analyses also revealed that memory distrust, despite being a stable

695 individual difference, can be associated with certain daily habits or life structures.
696 More-organized people have lower memory distrust than people with a less-organized
697 daily life. On the other hand, being able to find evidence that corroborate one's
698 memory was associated with lower memory distrust. Of theoretical relevance,
699 TV/movie consumption was positively related to MDS scores but not to SSMQ
700 scores, which may fit with the claim that the MDS measures memory distrust
701 specifically toward making commission errors.

702 Study 2 further examined the validity of the MDS as well as the SSMQ, using an
703 experimental false-feedback design. We found that participants who had higher
704 memory distrust performed worse in the memory tasks, as compared with those who
705 had lower memory trust. Further analysis under the framework of Signal Detection
706 Theory (Green & Swets, 1966) showed that when compared with people who were
707 lower on memory distrust, people who were higher on memory distrust had both a
708 lower sensitivity and a response bias toward saying "new". Regression analyses
709 revealed that the MDS was more closely associated with response bias to say "new"
710 than was the SSMQ, consistent once again with the idea that the MDS taps into
711 concerns about making commission errors.

712 After establishing that our false-feedback manipulation was successful in
713 inducing commission and omission errors, we examined whether memory distrust
714 would moderate the relationship as hypothesized. Participants who were more
715 concerned about making commission errors (as measured by the MDS) were more
716 likely to accept the false feedback that they could be wrong, and to therefore make
717 omission errors in subsequent tests, than were those who were less concerned about
718 making commission errors. However, no significant results were found regarding the
719 interaction between SSMQ (tapping into distrust toward omission errors) and the

720 false-feedback. Further inspection of the data revealed that in total, 16.08% ($n = 1504$)
721 of the recognition outcomes for new scenes changed from the first to the second test.
722 In the meanwhile, the rate of changing recognition answers was 8.34% ($n = 791$) for
723 the old scenes. This could mean that participants with different levels of memory
724 distrust were equally more likely to change their recognition decisions for the new
725 scenes and the analyses suffered from a ceiling effect. Further, in both tests, we used
726 the same set of filler scenes. As a result, in the second test, participants needed to
727 distinguish scenes they saw during the encoding and the scenes they saw only in the
728 first test. Participants who were more confident in their memories might have
729 mistakenly attributed the memory of new (i.e., fillers) scenes to the encoding task
730 instead of the first recognition task. Therefore, until additional studies explore these
731 relationships further, we caution against the interpretation that the SSMQ is a poorer
732 predictor of memory errors than is the MDS.

733 **Theoretical and Practical Implications**

734 Across two studies, we found evidence that social influence plays an important part
735 in our remembering processes. People who are more skeptical about their memories
736 were more likely to accept false feedback and change their memory reports
737 accordingly. This is consistent with the conjectures of Nash et al. (2022) as well as
738 Zhang et al. (2022b). When people are confronted that their memory might be false,
739 they engage in a weighing process comparing their internal representations and the
740 external information (Scoboria & Henkel, 2020). In this process, people's meta-
741 memorial beliefs could impact how they evaluate their specific memories, leading to
742 either sticking with one's prior belief or accepting the external information (Zhang et
743 al., 2022b). This is also corroborated by our results in Study 1 as well as that of Nash

744 et al. (2022) that people who are more skeptical about their memories also reported to
745 be more compliant. In forensic settings where the completeness and veracity of
746 memory reports are crucial, either the withholding of information or the acceptance of
747 external information due to one's memory distrust can have severe implications. For
748 example, withholding information could lead to failures to prosecute due to lack of
749 evidence, while acceptance of false external information could lead to even more
750 severe outcomes such as prosecuting the wrong person, resulting in the miscarriage of
751 justice. Although our methodology is a far stretch from how police interviews are
752 conducted, our results offer tentative evidence that people (e.g., suspects and/or
753 witnesses) might react to suggestive feedback differently based on their metacognitive
754 appraisals. Hence, measuring trait memory distrust could be of interest when
755 evaluating witnesses' statements. Moreover, for clinical researchers, although the
756 current research did not examine the relationship between memory distrust and
757 clinical symptoms such as checking behavior (see for example, Coles et al., 2006 and
758 Wong et al., 2022), we do believe that the MDS would be a useful tool for future
759 research in this area.

760 **Limitations and Future Directions**

761 It is important to convey the limitations of the present work. First, several of the
762 analyses in the current research were not preregistered. Although the exploratory
763 nature of these analyses (e.g., life habit measure and SDT analyses) has been
764 emphasized throughout the manuscript, our exploratory findings merit further
765 investigation to confirm their replicability. Second, the items measuring life habits
766 and structures were created ad-hoc and unlikely to represent valid or complete
767 measures of those constructs. Future studies could build on this exploratory analysis

768 using more validated measures (e.g., Creature of Habit Scale, Ersche et al., 2017; TV
769 consumption, Seabrook et al., 2016). Finally, and more importantly, the experimental
770 false-feedback manipulation in Study 2, although successful, had a relatively weak
771 effect on participants' responses. For example, in the second test, participants'
772 accuracy for the old stimuli with correct feedback was 89.48%, while their accuracy
773 for the old stimuli with false feedback was 87.27%. Similar results were found for the
774 new stimuli (with correct feedback: 81.84%, with false feedback: 77.79%). These
775 effects might have been so small for several reasons. The short interval between
776 encoding and recognition and the uniqueness of the stimuli may have made the
777 feedback not very believable. Furthermore, participants' attentiveness to the feedback
778 in an online setting may have not been optimal. Finally, whereas we told participants
779 what answers another participant had supposedly given, there was no reason for them
780 to treat this other participant as especially credible or reliable. These problems, as
781 well as the high overall rates of changing responses from the 1st to the 2nd recognition
782 test, may have contributed to the non-significant results regarding the SSMQ.
783 Therefore, further studies could include stronger experimental manipulations (e.g.,
784 delivering credible feedback in person) and extend the interval between encoding and
785 testing to have a more robust test on the effect of memory trust on the susceptibility of
786 accepting suggestions.

787 **Conclusion**

788 The present study validated a Chinese version of the MDS with good internal
789 consistency, test-retest reliability, and criterion validity. Life habits such as
790 consuming TV or movie products could influence memory distrust measured by
791 MDS. Moreover, people with high level of memory distrust were more likely to

792 accept false feedback and make omission errors in subsequent recognition task. Our
793 research takes an important step in developing theory and evidence on memory
794 distrust in non-WEIRD cultural contexts, and the Chinese version of the MDS could
795 be an effective tool for measuring memory distrust in Chinese populations.

796 **Acknowledgements**

797 We thank Mengying Zhang for helping with the translation process.

798 **Conflict of Interests**

799 The authors declare that they have no conflicts of interest to disclose.

800

801

References

- 802 Anderson, C., Kraus, M. W., Galinsky, A. D., & Keltner, D. (2012). The Local-
803 Ladder Effect: Social status and subjective well-being. *Psychological*
804 *Science*, 23(7), 764–771. <https://doi.org/10.1177/0956797611434537>
- 805 Bates, D., Mächler, M., Bolker, B., & Walker, S. (2014). Fitting linear mixed-effects
806 models using lme4. *arXiv preprint arXiv:1406.5823*.
- 807 Broadbent, D. E., Cooper, P. F., FitzGerald, P., & Parkes, K. R. (1982). The cognitive
808 failures questionnaire (CFQ) and its correlates. *British Journal of Clinical*
809 *Psychology*, 21(1), 1-16.
- 810 Chen, F. F. (2007). Sensitivity of goodness of fit indexes to lack of measurement
811 invariance. *Structural Equation Modeling: a Multidisciplinary Journal*, 14(3),
812 464-504.
- 813 Coles, M. E., Radomsky, A. S., & Horng, B. (2006). Exploring the boundaries of
814 memory distrust from repeated checking: Increasing external validity and
815 examining thresholds. *Behaviour Research and Therapy*, 44(7), 995-1006.
- 816 Ersche, K. D., Lim, T. V., Ward, L. H., Robbins, T. W., & Stoehl, J. (2017). Creature
817 of habit: A self-report measure of habitual routines and automatic tendencies in
818 everyday life. *Personality and Individual Differences*, 116, 73-85.
- 819 Faul, F., Erdfelder, E., Buchner, A., & Lang, A. G. (2009). Statistical power analyses
820 using G* Power 3.1: Tests for correlation and regression analyses. *Behavior*
821 *Research Methods*, 41(4), 1149-1160.
- 822 Green, D. M., & Swets, J. A. (1966). *Signal detection theory and psychophysics* (Vol.
823 1, pp. 1969-2012). Wiley.
- 824 Gudjonsson, G. H. (1989). Compliance in an interrogative situation: A new

825 scale. *Personality and Individual Differences*, 10(5), 535-540.

826 Gudjonsson, G. H., & MacKeith, J. A. C. (1982). False confessions. Psychological
827 effects of interrogation. A discussion paper. In A. Trankell (Ed.), *Reconstructing*
828 *the past: the role of psychologists in criminal trials* (pp. 253-269). Kluwer.

829 Gudjonsson, G. H., Sigurdsson, J. F., Sigurdardottir, A. S., Steinthorsson, H., &
830 Sigurdardottir, V. M. (2014). The role of memory distrust in cases of internalised
831 false confession. *Applied Cognitive Psychology*, 28(3), 336-348.

832 Henrich, J., Heine, S. J., & Norenzayan, A. (2010). The weirdest people in the
833 world?. *Behavioral and Brain Sciences*, 33(2-3), 61-83.

834 Hu, L. T., & Bentler, P. M. (1999). Cutoff criteria for fit indexes in covariance
835 structure analysis: Conventional criteria versus new alternatives. *Structural*
836 *Equation Modeling: a Multidisciplinary Journal*, 6(1), 1-55.

837 Johnson, M. K., & Raye, C. L. (1981). Reality monitoring. *Psychological*
838 *Review*, 88(1), 67– 85. <https://doi.org/10.1037/0033-295X.88.1.67>

839 Kuczek, M., Szpitalak, M., & Polczyk, R. (2018). Psychometric properties and
840 correlates of the Polish version of the Squire Subjective Memory Questionnaire
841 (SSMQ). *Personality and Individual Differences*, 120, 271-275.

842 Kuczek, M., Szpitalak, M., & Polczyk, R. (2021). Anxious and distrustful—How do
843 state anxiety and memory distrust influence the misinformation effect?. *Polish*
844 *Psychological Bulletin*, 52(4), 341-348.

845 Le, L. C., Hoang, Y. H., Bui, H. T., Nguyen, D. Q., Mai, S. T., & Luong, H. T.
846 (2023). Wrongful convictions in Asian countries: A systematic literature review.
847 *International Journal of Comparative and Applied Criminal Justice*, 1-17.

848 Loftus, E. F., Hoffman, H. G., & Wagenaar, W. A. (1992). The misinformation effect:
849 Transformations in memory induced by postevent information. In M.L. Howe,

850 C.J. Brainerd & V.F. Reyna (Eds.), *Development of long-term retention* (pp. 159-
851 183). Springer.

852 MacCallum, R. C., Widaman, K. F., Zhang, S., & Hong, S. (1999). Sample size in
853 factor analysis. *Psychological Methods*, 4(1), 84–99.

854 Mahr, J.B. (2023), How to Become a Memory: The individual and collective aspects
855 of mnemicity. *Topics in Cognitive Science*. <https://doi.org/10.1111/tops.12646>

856 Mahr, J. B., Van Bergen, P., Sutton, J., Schacter, D. L., & Heyes, C. (2022).
857 Mnemicity: A cognitive gadget?. *Perspectives on Psychological Science*,
858 17456916221141352.

859 Markus, H. R., & Kitayama, S. (1991). Culture and the self: Implications for
860 cognition, emotion, and motivation. *Psychological Review*, 98(2), 224-253.

861 Mewton, L., Sachdev, P., Anderson, T., Sunderland, M., & Andrews, G. (2014).
862 Demographic, clinical, and lifestyle correlates of subjective memory complaints
863 in the Australian population. *The American Journal of Geriatric Psychiatry*,
864 22(11), 1222-1232.

865 Nash, R. A., Saraiva, R. B., & Hope, L. (2022). Who doesn't believe their memories?
866 Development and validation of a new Memory Distrust Scale. *Journal of Applied*
867 *Research in Memory and Cognition*. Advance online
868 publication. <https://doi.org/10.1037/mac0000061>

869 Oeberst, A., & Wu, S. (2015). Independent vs. interdependent self-construal and
870 interrogative compliance: Intra-and cross-cultural evidence. *Personality and*
871 *Individual Differences*, 85, 50-55.

872 Otgaar, H., Bücken, C., Bogaard, G., Wade, K. A., Hopwood, A. R., Scoboria, A., &
873 Howe, M. L. (2019). Nonbelieved memories in the false memory
874 archive. *Journal of Applied Research in Memory and Cognition*, 8(4), 429-438.

875 Putnick, D. L., & Bornstein, M. H. (2016). Measurement invariance conventions and
876 reporting: The state of the art and future directions for psychological
877 research. *Developmental Review, 41*, 71-90.

878 R Core Team. (2021). R: A language and environment for statistical computing. R
879 Foundation for Statistical Computing, Vienna, Austria. 2012.

880 Radomsky, A. S., & Alcolado, G. M. (2010). Don't even think about checking:
881 Mental checking causes memory distrust. *Journal of Behavior Therapy and*
882 *Experimental Psychiatry, 41*(4), 345-351.

883 Ross, M., & Wang, Q. (2010). Why we remember and what we remember: Culture
884 and autobiographical memory. *Perspectives on Psychological Science, 5*(4), 401-
885 409.

886 Saraiva, R. B., Hope, L., Horselenberg, R., Ost, J., Sauer, J. D., & van Koppen, P. J.
887 (2020). Using metamemory measures and memory tests to estimate eyewitness
888 free recall performance. *Memory, 28*(1), 94-106.

889 Schweizer, S., Kievit, R. A., Emery, T., & Henson, R. N. (2018). Symptoms of
890 depression in a large healthy population cohort are related to subjective memory
891 complaints and memory performance in negative contexts. *Psychological*
892 *Medicine, 48*(1), 104-114.

893 Scoboria, A., & Henkel, L. (2020). Defending or relinquishing belief in occurrence
894 for remembered events that are challenged: A social-cognitive model. *Applied*
895 *Cognitive Psychology, 34*(6), 1243-1252.

896 Seabrook, R. C., Ward, L. M., Reed, L., Manago, A., Giaccardi, S., & Lippman, J. R.
897 (2016). Our scripted sexuality: The development and validation of a measure of
898 the heterosexual script and its relation to television consumption. *Emerging*
899 *Adulthood, 4*(5), 338-355.

900 Sellbom, M., & Tellegen, A. (2019). Factor analysis in psychological assessment
901 research: Common pitfalls and recommendations. *Psychological Assessment*,
902 *31*(12), 1428–1441. <https://doi.org/10.1037/pas0000623>

903 Smith, G., Del Sala, S., Logie, R. H., & Maylor, E. A. (2000). Prospective
904 and retrospective memory in normal ageing and dementia: A
905 questionnaire study. *Memory (Hove, England)*, *8*(5), 311–321.

906 Squire, L. R., Wetzel, C. D., & Slater, P. C. (1979). Memory complaint after
907 electroconvulsive therapy: assessment with a new self-rating
908 instrument. *Biological Psychiatry*, *14*, 791–801.

909 Strauss, A. Y., Fradkin, I., McNally, R. J., Linkovski, O., Anholt, G. E., & Huppert, J.
910 D. (2020). Why check? A meta-analysis of checking in obsessive-compulsive
911 disorder: Threat vs. distrust of senses. *Clinical Psychology Review*, *75*, 101807.

912 Sumampouw, N., Bjørndal, L. D., Magnussen, S., Otgaar, H., & Brennen, T. (2022).
913 Knowledge about eyewitness testimony: a survey of Indonesian police officers
914 and psychologists. *Psychology, Crime & Law*, *28*(8), 763–777.

915 van Bergen, S., Brands, I., Jelicic, M., & Merckelbach, H. (2010a). Assessing trait
916 memory distrust: Psychometric properties of the Squire Subjective Memory
917 Questionnaire. *Legal and Criminological Psychology*, *15*(2), 373-384.

918 van Bergen, S., Horselenberg, R., Merckelbach, H., Jelicic, M., & Beckers, R.
919 (2010b). Memory distrust and acceptance of misinformation. *Applied Cognitive*
920 *Psychology*, *24*(6), 885-896.

921 van Bergen, S., Jelicic, M., & Merckelbach, H. (2009). Are subjective memory
922 problems related to suggestibility, compliance, false memories, and objective
923 memory performance?. *The American Journal of Psychology*, *122*(2), 249-257.

924 Wang, J., Otgaar, H., Santtila, P., Shen, X., & Zhou, C. (2021). How culture shapes

925 constructive false memory. *Journal of Applied Research in Memory and*
926 *Cognition*, 10(1), 24–32. <https://doi.org/10.1037/h0101792>

927 Wang, Q. (2016). Remembering the self in cultural contexts: A cultural dynamic
928 theory of autobiographical memory. *Memory Studies*, 9(3), 295-304.

929 Wang, Q. (2021). The cultural foundation of human memory. *Annual Review of*
930 *Psychology*, 72, 151-179.

931 Watkins, M. W. (2018). Exploratory Factor Analysis: A Guide to Best
932 Practice. *Journal of Black Psychology*, 44(3), 219–
933 246. <https://doi.org/10.1177/0095798418771807>

934 Wong, M. L., Leung, C. N. W., Lau, K. N. T., Chung, K. F., & Lau, E. Y. Y. (2022).
935 The relationships among sleep problems, anxiety, memory complaints and
936 compulsive checking behaviours. *Journal of Obsessive-Compulsive and Related*
937 *Disorders*, 34, 100728.

938 Yang, T. X., Wang, Y., Wang, Y., Su, X. M., Ni, K., Lui, S. S., & Chan, R. C. (2022).
939 Validity and normative data of the Chinese Prospective and Retrospective
940 Memory Questionnaire (PRMQ) across adolescence, adults and elderly
941 people. *Memory*, 30(3), 344-353.

942 Zhang, Y., Battista, F., Thissen, D., Otgaar, H., Wang, J., & Jelicic, M. (2022a).
943 Examining the Associations between Nonbelieved Memories and Memory
944 Distrust, Self-esteem, and Rumination. *Psychology of Consciousness: Theory,*
945 *Research, and Practice*.

946 Zhang, Y., Otgaar, H., & Wang, J. (2022b). Memory distrust is related to memory
947 errors, self-esteem, and personality. *Applied Cognitive Psychology*, 36(2), 283-
948 292.

950 **Table A1**
951 *Factor Loading in the Two-Factor EFA model*

Scale Items	F1	F2
1 我经常通过寻找物证（例如照片）来确认事情是否真的以我所记忆的方式发生。 I often look for physical evidence, such as photographs, to check whether things really happened the way I remember them.		.56
2 我经常求助于他人来帮助我确定自己的记忆是否准确。 I often turn to other people to help me decide whether my memories are accurate.	.36	.36
3 如果他人不能证实我对过去事件的记忆，我倾向于对自己的记忆产生质疑。 I tend to question my memories of past events if other people do not corroborate what I remember.	.73	
4 有时，如果我找不到任何物证来佐证自己的记忆，就会不信任自己的记忆。 Sometimes I distrust my own memories if I cannot find any physical evidence to confirm what I remember.	.64	
5 我经常难以区分自己的回忆和单纯的想象。 I often have difficulty distinguishing events I remember from those I only imagined.	.48	.37
6 我经常不确定自己记得的事情是真的发生过还是仅仅想过或梦到过。 I am often unsure whether something that I recall genuinely happened, or whether I only thought or dreamed about it.		.68
7 我相信我的一些记忆可能完全来自想象。 I believe some of my memories may have originated entirely from my imagination.	.38	.35
8 我有时不确定我记得的事件是真的发生在我身上，又或者只是我在电视上或电影中看到过。 I am sometimes uncertain whether an event that I recall really happened to me, or whether I saw it on TV or in a movie.		.80
9 有时，他人对过往的描述会使我怀疑自己的对那些事件的回忆。 Other people sometimes describe past events in ways that make me doubt my own recollection of those events.	.34	.37
10 我很容易被说服自己记得的事件不可能发生过。 I could be easily persuaded that an event I remember is impossible.	.83	
11 如果我和另一个人对过去的回忆相矛盾，那很可能他/她的回忆是正确的。 If another person contradicts my recollection of the past, they are probably correct.	.78	
12 在适当的情况下，我可以被说服，自己的任何一个记忆都是完全错误的。 Under the right circumstances, I could be persuaded that any one of my memories was completely false.	.76	
13 通常而言，相比于自己的回忆，我对他人的回忆持有更多的信任。	.75	

	I generally have more trust in other people's recollections of events than in my own recollections.		
14	我经常相信他人对某个事件的描述，即便我自己的回忆与其相差甚远。 I often trust other people's descriptions of a past event, even if I have a very different recollection of what happened.	.73	
15	相比于我自己的记忆，他人的记忆通常而言更准确。 Other people's memories are usually more accurate than my own memories.	.92	
16	我的记忆很少能非常准确地反映真正发生的事情。 My memories are rarely a very accurate reflection of what truly occurred.	.83	
17	我对过去事件的记忆不可靠。 My memories of past events are unreliable.	.69	
18	我难以总是确信自己的记忆准确地反映了事情的真正经过。 I cannot always be confident that my memories accurately reflect what really happened.	.46	.34
19	我对许多自己记得的事情的确发生过没有什么信心。 I have little trust that many of the events I remember did really occur.	.73	
20	有时我不相信自己记得的经历实实在在地发生过。 I sometimes distrust that certain experiences I remember really happened at all.	.36	.41

952

953 Note. Response scale: 1 = 非常不同意; 2 = 不同意; 3 = 略不同意; 4 = 中立; 5 = 略同意; 6 = 同意; 7 = 非常同意.

954 Response scale: 1 = strongly disagree; 2 = disagree; 3 = slightly disagree; 4 = neither agree nor disagree; 5 = slightly agree; 6 = agree; 7 = strongly agree.

955

956 For the English version of the Memory Distrust Scale, please cite the original article:

957 Nash, R. A., Saraiva, R. B., & Hope, L. (2022). Who doesn't believe their memories? Development and validation of a new Memory Distrust
958 Scale. *Journal of Applied Research in Memory and Cognition*. Advance online publication. <https://doi.org/10.1037/mac0000>

959

960