Asian Journal of Social Ps cholog (2017), 20, 63 74

Same meaning but different feelings: Different expressions influence satisfaction in social comparisons

Yi Song,^{1,2} Xiaofei Xie^{1,2} (b) and Hui Zhang^{1,2} S , P 🎙 U 1Sh PhaayCh ,ay²B ♦K Lab a B ha a 🚽 , B 🍬, Cha MaHah, P 🎙 U a, ^M "ar м. ₩____b (... la, h ttr. ta, **a**_1 fr t 5ffr 1 2, r. **"**,). r 11 ff r 1 5 "ar ja, 5. 1, 5 12, 1 1 а, **a**_1 r r ' $\begin{array}{c} 5a_{2}1' & a_{2} + p_{2} + \dots & (\dots & b \\ m & & m, & m \\ r & & m \\ r & & m \\ \end{array}$ 5..... '). 5 a, a,ff 1a, a, 11 , ___, ar 5 ttr r r "ar **b**, 5 5a,1 f 5 12 1 r 11 a, L , **t** r. ",ar [₩], I 5 л b ttr 12 b ttr 12 Ja, a_r 1 **A**r . 1 r a, ĴŰ. ш , 5 pa. 14.1. f .fr 🖏 L 1a, 1 1 л ,a, 1,5a, 1 59 Ir r.

Ke words: direction of comparison, framing effect, social comparison.

ліл **a**,1 1 a, 11 t . At 1. 1 r 1 t r r Lt 1 a.a. 5 At rk, 1 *n* 1 rfr 🕷 5 a ar 11a 1 r b 붷 5 12 1 , а, 11. f. . . 1. 1 b "ar a,1 & t (1 Fk , 2014). It a, ra 1b r r 1 (B₁ | . k, D_− k ⊮₁, B_− , D. k 📭 , & Br 15 , 2012). ". "a_r -5ff r . **1** a, a,1 а, 1 t fr 🖏 Fr a, ' 1, b ur Ta *m*/r, r It a, ja, / r b ĴΜ. Ma_ra, 1 a, 1 12,11 5 trin_{a, i} `, a. It a, 🐴 11 t r ۲. 5ff r ar r r 1 1 а. 5a.)II 'f 1-٦, 1 a, 11 a f tr a, 1 1 1. k 1 "ar a, 11 r 12 1 . lr 1 "a fr 🖏 -I a, 55 L a,1 |r L ", , I' 1. fr 1 f (t r " 15 b ar ft. ۲. 1 h. 1 1 r a. 1. 1 , 1t ar r t r ţ.f fr 1 1 r (_. . · '). Fr ,a, ą, 1 ÷. 11a,,, t r r r h м, , 15 a, t r , ar b ttr / ja. a, r b ttr / r r'r ja, , D.ar 1. 1. 1 Correspondence: 2 f 1,

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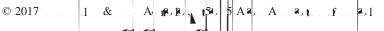
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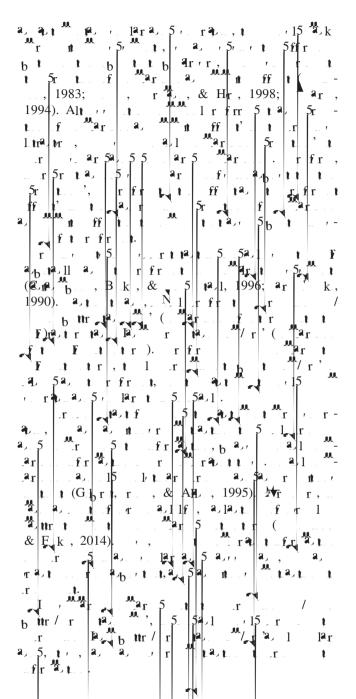
r r ar B, 5 11 1 . 1 r 5, $\mathbf{r} = \mathbf{a}_{\mathbf{r}}$ a / 1 1 1 ù. 1 r a.|1 r 1. f (C 11 , 1996). ar I 1, 1, "a_r 1 a 5 r $-|^{ar}$ a., ar t. f **a** . ". 1. a. **a**, 붷,, 5 _r t r / _11 , (1981). "ar ш 5, 1 a,1 А 1 fr -.r m_a, ¥., ш **a**, fl , a, 5 rь 5ff r b **e 1** 5ff r a, t. r _1|, **p**_1 -H b

Subject versus referent: Different orders of the objects

1 ,r ar r f. . 512.11 1 b 5ff r , 5, 5r Î.Î. t , 15 b ft a, 🏢 11 1. hr - b bra .r r lt,, ш r r °--` . ↓ . b 1 л. 5 1 12, vice versa. It lr. 1 4 r b лл , 11 5 а, ff ar . r k & C. t, 1978). k M_{at} Fr H 1 fr Ъ._?, ? Η ar a, I r

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The influence of motivation to process the information on satisfaction

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fr 🖏 L blr. t r t 1 5 ar ı₽.1r.,t, 1 *.1 5 16 m. 1 1 a, , 5 #tralratit t fr , **a**, 5 t r 1 л 5 $t = r_{-} r_{-} lr_{-} t, tr_{-} r_{-}$ 1 t B J. fr _t_r 1 r а, 1r 1986; I а, (**n** & C, & **u** r 1999). 5a, 1 , 5 а. л 5 a,a, 992; La,L а, $(\mathbf{I}$ ★ k, 1 tt 1 1986). A 5 r л 12,1 fr 1 a, n lr 1 1 r r r ar fil fr ar 2 r a,1 a a, 1 f 11 а, 1İ. tr fr r lr ų. 12,1 , 15 fr k k 12 n ja, t r h a.1 B, 2 ttr 1 л **A**, 1 f .r 1 r ttr / r r 1 r b Th ttr 12 .r м, ttr / r 8 ja, r r b 5 ja, **a**, a 1 a а, 52 а, f r , 15 r 1 r JU, 5 a. f, 11 ,a, 5 1 f 1 1 а, a, 1 lt , 15 a 1r r 5 a, 1 **A**, 12,11 f à. 1 5_b t ff r fr t : . 1 **a**r H1Ι ar t. f t 5a,1' ttr 1a), b **m**/ h, fa 1 .r b *H2*: I 5a, 1 ٠r I lr t h a, b 🔐 1a , Ш _fr 🎝 🕯 *H3*: 121 f .r -5ff r a,t t r 11 b 1 1 ۲, a, 1 A, 1 a, 11 , t 1 $\mathbf{a}_{\mathbf{f}}$ 5r r 2 5a,1 а, 1 fr 1 t. r 12 ja, ja r 1 1 r 5. 1 B, / / r 14, 1 ¥., La,L .r 1 r 和東朝の a 1 f © 2017 &

Better versus worse: Different framings
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5ff r 5 ff r 5 $5a$ l'a ta b tr 'a, 5 r 'a, 1 5 $5a$ l'a ta ta ta ? 5 ff r 6 t b t b tr 'a, 5 r 7 ff t ff t $(r k & a)$ a
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(H3,), 5

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rath t. .

Which effect is stronger?

ra, n a, ^M , f 1 fr-1 a, 5ff r 11 'b Il r.

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Results

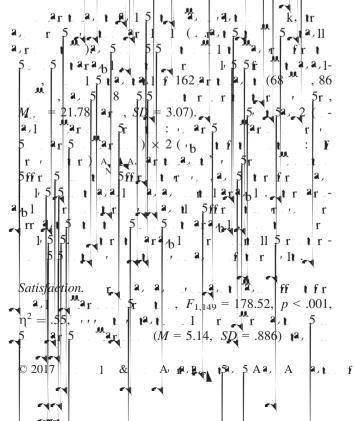
a, 5 r 21.41 **a**r , \$D = 1,85). A 2 5r, M_, a, 1 , wat : 1 ar 5 5r || r / . 1 . . ar 1 ft ×-2 (ib r tr) -1 · · -, a,a f ara (A) a, 5, 1 5 (A ₽_b1 na, at rr 1 1 5 $\left| \tilde{a}r a_{b} \right|, a \left| 5 t r f r \right| r \left| 1/5 5 \right|$ 5. 5 `a, <u>11</u>a, a, <u>1</u>1 . ar r i lt r . b* ---1,5,5 a.a.1 Satisfaction. ff tfr $p < .001, \ \eta^2$ $M_{ar} = 1.00, \qquad (M = 4.80, SD = 1.15) a, 'r ta,$ $M_{ar} = 1.15) a, 'r ta,$ $M_{ar} = 1.15) a, 'r ta,$ (M = 3.32, SD = .85).b t 5.5 tr a, 2.1 ta, 1'r ta,b t 5.5 tr a, 2.1 ta, 1'r ta,b t 5.5 tr a, 2.1 ta, 1'r ta,b t 5.5 tr a, 2.1 ta, 1'r ta,'r ta,"ar a_r 5 12.1 , a₁ 5 *****, ff tfr F_/ r 3. t r a, a, 1 t = 1, tra, t = 1, ar 5, ar = 1, ar a, (M = 3.56,**5**.1. м, r 1ª 51 M = 5.28, M = 5.28, M = 5.28,SD = 1.18) **a "**, 5.1 (M = 4.47, SD = 1.02), r 🛶 12. $F_{1,54} = 7.57, p = 0.008, p^2 = 0.12, r = 0.47, SD = 0.008, p^2 = 0.008, r = 0.008,$ 12, 52 (..., fr. 1 ff. 1), b' 1 ... 1 H. 1 ... 4 (... fa, ^M , ff 1).

Discussion

¥ 5 tr.r. **a**.1 k.ll. ab 1 59,1' 2,1 P 1 ... Mr r,tr /lt Mar 1 12,11 _, / , a м, r trfr 1, b' 1 ... 1, 5ff r . tfa, 1,5 2a, 15 1 a,a, r^mlrfr lff 1a = 5 2 a = 5 ff r + a = 1H. . $\begin{bmatrix} a_{1} & -a_{2}a_{1} & 5 \\ r & 5 & 5 & 5a_{1} \\ r & 5 & 5 & 5a_{1} \\ r & 5 & 5 & 5a_{1} \\ r & 5 & 5a_{1} & a_{1} \\ r & 5 & 5a_{1} & a_{2} \\ r & b_{1} & t & t_{1} \\ r & a_{1} & a_{2} \\ r & b_{1} & t & t_{1} \\ r & a_{2} & a_{2} \\ r & a_{1} & a_{2} \\ r & a_{2} & a_{1} \\ r & a_{2} & a_{2} \\ r & a_{1} & a_{2} \\ r & a_{2} & a_{1} \\ r & a_{2} & a_{2} \\ r & a_{1} & a_{2} \\ r & a_{2} & a_{1} \\ r & a_{2} & a_{2} \\ r & a_{1} & a_{2} \\ r & a_{1} & a_{2} \\ r & a_{2} & a_{1} \\ r & a_{2} & a_{2} \\ r & a_{1} & a_{2} \\ r & a_{1} & a_{2} \\ r & a_{1} & a_{2} \\ r & a_{2} & a_{1} \\ r & a_{1} & a_{2} \\ r & a_{1} & a_{1} \\ r & a_{1} &$ n r r Tr fr 4.1 3. 4 Study 2 M | || Method Participants and design. 1<u>-</u> · 5 5a, _' **1 r** (7 **A** , 89

',a, 5 I, 10 10 ta, 1 1 1 r ar t k 1 . Aftr 12,1 r hh r Ι k: r /1 12 t r 5 ttr / 12)/h 1 /1 r **1** r Ň 1 1 ar unsatis ęd. 7 (1 = v)r 1 <u>e</u>r _ satis ed)a, a, 1 19 r ſľ r? ?' (1 = verbad, $7 = ver_{-}$ good). ra, f r 1 1 $r_{h1} (r_{h1})$.79). Aftr ar ٢. 1 t r 1 2000 1 k h 51 a,1 a, f t f 1 f 76. r t - 2 1 strongl Л. 7 disagree' strongl tr 1 art 1 1 Ι ſ a r art 1 a, 1 ar r a,1 ver 1 1 n F.a. 11, 5 7 dif_{cult}, = ver eas`). 1 1r 21 5 nª, a 15(5r 🚛 **a**, 5). . /

Results



$a_{\rm r} = 3.24, SD$	= .96). r ,]	ļ
r a,1,5	ättfr 'b	ţ,
$ \begin{array}{c} \mathbf{a_{r} 5} \\ \mathbf{r} \\ \mathbf{a_{r} 1} \\ F_{1,149} \\ \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \begin{array}{c} \mathbf{f} \\ \mathbf{f} \\ \mathbf{f} \end{array} \end{array} $		

15 5a, ... - a. $\mathbf{G}_{\mathbf{r}} = \mathbf{1}$ a, 1 1 , $F_{1,157} = 11.72$, $p \models 001$, $\eta^2 = .07$, tra, F Frtra,a,1 4. ar - taa, a, 5 1 ' r 1 t л (M= 3.51, SD = .9412 1 ttr ю. ja, Ta . (M = 2.95)1a, 1 r 51 SD = .90, $F_{1,80} = 7.65$, p = 0.007, η^2 = .09. I м r "ar a, a, 1 ar r r, ju м. Ja, b ttr ta, (M = 5.26,1 м, SD .97) ta, . 1 51 12 r = 4.85, SD = .80), $F_{1,78}$.038, $\eta^2 = .054$, 45, *p* = (M5 2, ·... r 1 5 H 12 ra, t 1 H . 1 4. b' -

Motivation to process the information (mediation) ff 1 f 5ff r 11 1 trt ÍI. 5 a 1 12/11 f 1 1 h ¥., .r r Ł,, 1 1 5 ŀ fr 5 I 1 11 ą, b (0 1a,1 $= other)^{a}$ 2 th a, f 2 ą, ðr b .08. 5r (2013) 1 t, b r `5000r f a 5 5r 1 ff b 1 1 $\begin{array}{c} \operatorname{tr} \mathbf{a}_{1} \\ \mathbf{m} \\ \mathbf{5} \\ \mathbf{5} \\ \mathbf{t} .45,a) 2 , 1 м, .0072 .6015 fr r 1 **a**_ 3). ar 5 (_. . H 7

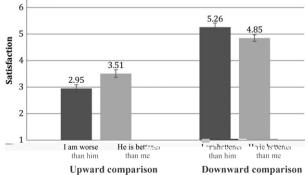
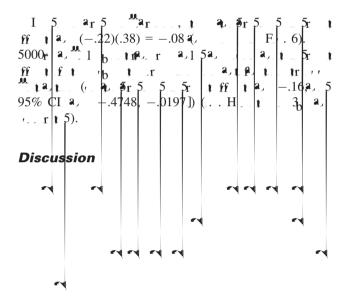


Figure 4 The results of satisfaction in four conditions in Study 2. Bars indicate standard errors.

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). t. tr r 1 1 r , 11a, 5 а. а, a, 5 r 1 r 1 ar 1 **a** . 1 ra 1] r rr 16% pa , 1 ft t ta, r b 👖 ja, rr 102.1) f 16% **a**, ar ja, ttr r r b м, tra, t fa 1 rr 1 r 16% 1 ja. **1**.), r 16% 1 r rr tra, t 12 a 1 r м. (r f f 1 r f.r а. r а, 12 2 52 5ff r , rr JI. t 2 lt. Fr 2 t b 5 ar . 1 , f ar L 11 12,1 1 tra, 16% ta, 1 r r 5 1a, 1 f (ja .ttr 1 r b 1a, tr ar r, / 15r , lt 1 1 I, 16% 1a, 1 rr tra а. 1 r r ia, ja 1 (r 1 2 k:

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Results 1

F a, 1 ar t ŀ f a 1.1 1 1 k. b 101 ar , (35 21 3.17). 66 Q SD 2 t ar r) X r a b l 1 r Υ. , tl r rr 1 a,1. rfr, 11 lt. r a,a,1

5a, Satisfaction. ff tfr , 1 "ar a,1 6.99, | p = .01, $\eta^2 = .067,$ 5 J r alt **a**, a a, tar 1. 1 . . 1 (M =4.25, SD = 1.201. 1 (M = 3.66, SD = 1.14).12, 5 5 쁔, Ìf à 11 r b $F_{1,97} = 1.49, p$.226])15. =© 2017 1 & B. ip. 5 Aa A a. L. A 1

rall, tr /lt 5a, a, 1 tradition, $F_{1,97} = 4.40, p = .043, \eta^2 = .07$, a,15 1a,1 F 7 ll neit. Frtra, a, 1 r r "ar , ar 1 .a. 1 a ar r 1 b 🏨 51 t ja, , ' (M = 3.76,М, SD = [1.05) 12. 5 -, ar t r $(M = 3.56, SD = 1.23), \mathbf{b'} \mathbf{1} \mathbf{1}$ 5ff r 1. 1 $.54, h^2$ ra, a, . , $F_{1.48} = 3.83$, p .bØ8. P.15 1. H rt H 1 1... "ar 5 a 5 ar. 5a,1 2 r t , ar ja, th M = 4.64,SD = 1.15 12 1 , Ī 5 (M = 3.88,SD = 15.53 $F_{1,49}$ $\eta^2 = .101,$ p = .023,1 H. . 1

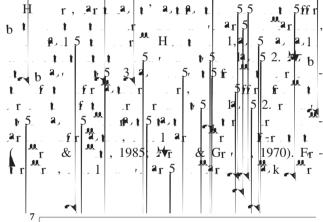
Discussion

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3 5 Þ 11 A. 1 r ia, lţ, r r a . 5 fr ff 11 r r 1 1 r 1 ¥., (H 2) fr f 1 fr 1 r r



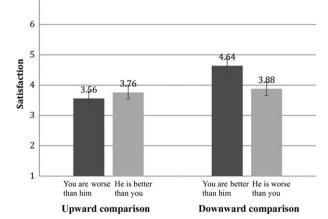


Figure 7 The results of satisfaction in four conditions in Study 3. Bars indicate standard errors.

ffriit.r.i iir F-i (D. r, 1984; 🚈 & $a_r k_r$, 1984; M_r & G_r , 1970). r f r, . 1 🖏 tr tr Atflitt ^mar , ar 1), _ r 5r t F-r t t 1 1 5, 1512, a, a, r t r /lt _fr 🎝 t. r 🔤 r . Al., 1 r 1 r.1. r 🍋 11 🥤 🕇 1, 5. . , 11. 5 ₽r – r 5, 1 1 fr b ttr ta, ff. $E \cdot 1$ | (**t** n tr 1 k '), ⊄ b ttr hr (.,) Ar / rt.L a , 11 **A**r arlr ta, t 1 ¹⁴ 5 12 1 1 r fr 1 ff 1 `,). rfr, $\mathbf{a} = \mathbf{a}$ a | 1 - E. 1 1 Study 4 1 -1 Method Participants and design. -, 5 5a, 5 ft - ar 1 a, 1 (78 , 81 , 81 , $M_{1,1} = 32.96$ ar, SD = 9.86)r r 1 5 tr 1 t . 1. ₩ a, r 1 tr . 1

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Procedure and materials. I a, 4 쎻 ra, 월, a, **a**,1 1a, 52, art a, t r a, k5t1, ar 1 a, p ar . I 1 ar $r = a_1 a_1 t 5_b$ 11a, , `, a, h a. 🕌 1. rfr 🖏 🛛 a, 10, a, 1. ar b tir 12 5.1. , 15**1** a, a, 1a, 1 , '. a_r b 🚚 ja, 1 , 15 r a, 5 tr 2 r a , '. a, **a**, -1**a**, r b ttr 1 1 Aftrra, 5 a_{1} , a_{1} , a_{2} , a_{3} , a_{4} , a_{5} , a_{7} , b_{8} , b_{1} , b_{1} , b_{1} , b_{2} , b_{2} , b_{1} , b_{2} , b_{1} , b_{2} , b1 in" <u>50. 1</u>... ara 11 k, t 1 12,1 fr 1 r

2, C. B. $\mathbf{a}_{\mathbf{t}} = \mathbf{t} [\mathbf{a}_{\mathbf{t}}]$ ra, ¥ 5 5 $t = a_{b1} + (t)$ a, 1 f. $a_{1} = .85$), t 1, 5, 3, r = .87), 15, 5, r = .87), 17, 5f 11 1 м ј 1^ma, 1 а, **g** 1 a_{rabl} (a_{rt} 11 1 ш **a**r ... a f a, a,1 1 r -

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 rfr^{ab} , $a_{b,1}a_{b,1}a_{b,1}$, trrallf). Eall, l-1 t5tr5^{ab}, $ra_{b,1}a_{b,2}a_{b,1}a_{b,1}$.

Results

art 4, 18, 151 4. $M_{\rm eff} = 33.01$ ar , D = 9.87). A 2 (a.1 ar 1.:, ar 5 - · · r · $) \times 2 (|_{b} | t$ t. : Fr 1 ⊾_A a, . n. 1 at a b1 a 1 $a_{rab}1||a_{r}$ 5ffr bl r 1,55 **a** a a 1 . rfr r 1 r $\begin{bmatrix} 5 \\ f \end{bmatrix} = \begin{bmatrix} 1 & r \\ r \end{bmatrix} = \begin{bmatrix} r \\ r \end{bmatrix} = \begin{bmatrix} r \\ r \end{bmatrix} = \begin{bmatrix} 1 \\ r \end{bmatrix} = \begin{bmatrix} r \\ r \end{bmatrix} =$ 1, 5 a, ,a,a,1 11 r a, , t . Satisfaction. al ^mar $\gamma^2 = .62, \dots$ M = 5.77, SD = 1.21(M = 2.64, SD = 1.33). A1 ar $1 \quad r' \quad f, \quad F_{1,154} = 4.00,$ ff p = .047, η^2 5a, <u>1</u> J. Mr r ll a, $\begin{array}{c} \mathbf{f}_{1,154} = 4.94, \ p = 0.028, \ \eta^2 = 0.031. \\ \mathbf{f}_{1,154} = 8, \ \eta^2 = 0.031. \\ \mathbf{g}_{1,154} = \mathbf{g$ 1 - a, . 11²/ 1. . Α M = 2.66, SD = 1.13)ab the la , a_r ja, r 5 (M = 2.62, SD = 1.53) 5 5 5ff r $F_{1,76} = 02, p = 89. A + 5 3, 1$ 1 1 1 1 5 1 1. H r, 5. a_r 5 $\begin{array}{c} & & & \\$. / Pr 5_{1} (M = 6.19, SD = 1.01)5. ta, M = 5.35,SD = 1.27), $F_{1,78} = \begin{bmatrix} 1^2 \\ 0.68 \end{bmatrix}$, $p = \begin{bmatrix} 002 \\ \eta^2 \end{bmatrix}$, $\begin{bmatrix} M \\ \eta^2 \end{bmatrix}$ a, a, ____, r t 5 H [t ___2.

Motivation to process the information (mediation). 1. $a_{r} = a_{r} = a_{r} + a_{r$ ar 1, a, 1, a, a, â, il ar 5 r 1 5 1 larable 1 a, a, . 11 _,a)a,1 9, 1 Fir 1 ('b л $\begin{array}{l} 0 = the \ selfa, \ 5 \ 1 = other) & , \ 15 \ r \\ \beta = -.24, \ t = -2.15, \ p = -0.35. \ Fr \ t \ r \end{array}$ r, 12,1 $|\beta| = .40, t = 3.80, p < .001.$ r fr , t 1. $|\mathbf{t} \ \mathbf{f} \mathbf{f} \ \mathbf{t} \ \mathbf{a}| (-.24)(.40) = -.10|$ ðr. 1. a. . . f t ... 5₁ A 5000_F a 1 b t F -prel 1 .r 5^{1} 5^{1} 5^{1} 1^{2 r = 1r, 5r -.5106, -.0288. ı ff a 1 12,11 **,** | H ₿₀). r L 1-1-A 18 B, 159, 5 A2, A . 2.1. £ 21 1 & 1,

2

Discussion

General discussion



t ff t f ... t l... t (a.k ff, 1987; a. -a. kr., 1987). ar r a. 1... t 5.5 t f. tr ta.t. a. t a.1. ar ... (... B_{rr} k & G_{bb} ..., lr & 🙀 k , 1992; 5, 1989). 2007; - r 1 1 5 f. 5 pa, p. 1 5ff r "ar ш , 1a, 5 a.ff | 1 **a** 1 1 a,ar a_r a, a.1 f r ۹r

ţ 5. 1a, 5 2,a, ¥.1 t fr (_. . r .r '), t I/' 5ff r 15 Pr 52, b ar Η r t 1 , ¹ (_.), **a**r a., fr 56 5 ar 5 t 1 ar r * л $||\mathbf{a}_{\mathbf{r}}|$ 11 ____ r ۰. 1 者. $5a_1a_r$ fr fr. tr a, 1 :, **1**2, r r 뿋 ar f r F-r t r . л & 1985; Mr & Gr / 1970). a 1. "ar ĸ ar a,, la it A 5 $\mathbf{a}_{1} = \begin{bmatrix} 5 \\ 1 \end{bmatrix} \mathbf{r} = \begin{bmatrix} \mathbf{F} \\ \mathbf{F} \end{bmatrix} \begin{bmatrix} \mathbf{F} \\ \mathbf{F} \end{bmatrix} \begin{bmatrix} \mathbf{A}_{1} \\ \mathbf{F} \end{bmatrix} \begin{bmatrix} \mathbf{F} \\ \mathbf{F} \end{bmatrix}$ r, 1984; (D_ Mr & 1. ar kr |, 1984; 👫 & Gr , , 1970; r , Mir & w^{s t} ₩ r 1988). rfr, $a_r 5$ fr¹, fr¹ a.) 1, 5, 1 .r Чb f r. t r a. 1 1 1. ĴL. £- 1 a, ____ 1 11 1 fr, år ffrtt r 5 . tr . r t a, 1 5 5ff r 11 1 62 ha_r **¥**, . Frur r $\mathbf{a}_{\mathbf{r}}$ $a_{\rm r}$ 5 , **a**, **k**, Mr 5 f. . r 🍋 r 1 1 12,11 f t r fr 5ªh 1 (/ rª, k t r r a), | b 1 1 ra, `) , 15 5 a,1, -Alk, & n k a, L **F** (2015). r, "ar ·•• **a** 11 E, $a_{r} 5$ 5 51 a, 1a, 1 **m**]1 m r 1 1 а, Pa-161 1 b 1 a.b a, ra, ta, a, _ra, . tra, 1 **b** \mathbf{t} | \mathbf{r} | \mathbf{f} \mathbf{r} | \mathbf{f} | \mathbf{f} | \mathbf{t} | (... \mathbf{t} r fr 1 f **a**), 51 r.fr 2.1 r t ų 5 1. Ţ aļ r **%**, a, A k f ff ar ifr t r 1.2.1 n ,a, f 5 I ar Frtr 51 r F')a, , ' (r b \$, tr a, 1 ^Mar fr 🐇 а. 1 *et al.*, 2002 H r , 1995). B a, (., . H. 5, 1_. л ж .r $\mathbf{a}_{\mathbf{r}}$ 5ff r 1, 1 t 1 5 I' , 15 b f , a 5 f 1 a,1 rr. ,ra, h , t m_{ar} a, . . r 4 t. fr t. 1 F_r 1 1 5-44 a ar 5 ar ()), 1 Ia. b thr 14 ji, м, 1 t-) \mathbf{r} \mathbf{r} \mathbf{b} thr harri fr t 5a,1 ft 5. r r л. 5_52,1 Mar a, 1 r_r_1 *. r 1 Fr a. 5 . 1 a. t 1 1 t b, a ar ar , ar 5),a, _a . . - 1 · **%**_k - b thr ta r b III, ia)

 $\begin{array}{c} & \overset{W}{T}r \, \hat{\eta}_b \, l \, \hat{a}_{,\, 5} \, 5 \, l \quad \hat{f} \, r \, \hat{\eta}_{,\, 1} \, 5 \, . \\ \hat{a}_{,\, 1} \, t \quad . \, r \, \hat{a}_{,\, a} \, r \, \hat{a}_{,\, a} \, 5 \, \overset{W}{=} \, t \, \hat{a}_{,\, b} \, t \, 5 \, . \end{array}$ H) 12,5, f 12,1 r r ... ffrt, 1 r f 11 a.h. ja, \mathbf{r} rkar 5r. 50 51, "ar ra, 1 1 5 1 r 5r $| \mathbf{r} | \mathbf{f} \mathbf{t}$ "ar $\begin{array}{c} \mathbf{r} & \mathbf{i} \\ \mathbf{h} \\ \mathbf{F} \\ \mathbf{F} \\ \mathbf{r} \\ \mathbf{$ 5.5 , _{b'} 1 11 Ĵu , 5 t r . lr **a**, 1 1 1 1 1 5 Ы fr **f** (_. . I') r t-r 5-| r 5 , ') [5 a] a., 1 r . **B** a, ,) (_. 5ff r -5- r I -b & 4 -4 1 JI. r || t- r (b kr, 2007; kr 4 & r, 1999), ₩, 5ff r 5 ff r 1 5^2 1 r1. 1 -1

Acknowledgements 🏹

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