

Supplementary Materials

for

Visual attention and time preference reversals

Section 1: Stimuli

Section 2: Separate mediation analysis in Study 1

Section 3: Separate mediation analysis in Study 2

Section 1: Stimuli

Table S1. List of option pairs used in Study 1 and Study 2.

Pair	Smaller–sooner option		Larger–later option	
	Delay	Outcome	Delay	Outcome
1	43 days	480 yuan	81 days	680 yuan
2	11 days	590 yuan	90 days	940 yuan
3	15 days	650 yuan	73 days	950 yuan
4	40 days	860 yuan	88 days	960 yuan
5	31 days	380 yuan	47 days	410 yuan
6	12 days	630 yuan	82 days	860 yuan
7	25 days	310 yuan	91 days	750 yuan
8	57 days	830 yuan	72 days	850 yuan
9	19 days	650 yuan	47 days	670 yuan
10	19 days	280 yuan	79 days	640 yuan
11	18 days	670 yuan	69 days	940 yuan
12	21 days	210 yuan	39 days	280 yuan
13	14 days	320 yuan	64 days	980 yuan
14	89 days	510 yuan	93 days	550 yuan
15	61 days	790 yuan	82 days	890 yuan
16	22 days	330 yuan	64 days	970 yuan
17	12 days	280 yuan	44 days	450 yuan
18	18 days	430 yuan	39 days	830 yuan
19	34 days	320 yuan	98 days	390 yuan
20	29 days	590 yuan	68 days	740 yuan
21	33 days	380 yuan	48 days	450 yuan
22	23 days	590 yuan	96 days	860 yuan
23	17 days	380 yuan	68 days	460 yuan
24	22 days	320 yuan	94 days	840 yuan
25	64 days	520 yuan	82 days	760 yuan
26	46 days	790 yuan	89 days	820 yuan
27	34 days	660 yuan	86 days	970 yuan
28	18 days	630 yuan	69 days	990 yuan
29	18 days	450 yuan	88 days	690 yuan
30	84 days	330 yuan	90 days	350 yuan
31	16 days	610 yuan	65 days	970 yuan
32	62 days	760 yuan	79 days	850 yuan

33	54 days	710 yuan	93 days	820 yuan
34	22 days	410 yuan	35 days	490 yuan
35	53 days	570 yuan	99 days	670 yuan
36	18 days	490 yuan	49 days	950 yuan
37	49 days	390 yuan	97 days	770 yuan
38	17 days	170 yuan	49 days	260 yuan
39	44 days	580 yuan	64 days	710 yuan
40	22 days	740 yuan	74 days	770 yuan
41	30 days	520 yuan	59 days	950 yuan
42	24 days	210 yuan	47 days	230 yuan
43	70 days	590 yuan	87 days	790 yuan
44	17 days	190 yuan	49 days	330 yuan
45	21 days	280 yuan	45 days	670 yuan
46	13 days	880 yuan	44 days	990 yuan
47	28 days	210 yuan	82 days	740 yuan
48	26 days	580 yuan	58 days	950 yuan
49	45 days	250 yuan	83 days	270 yuan
50	72 days	480 yuan	85 days	560 yuan

Section 2: Separate mediation analysis in Study 1

As a robustness check, we separately conducted two mediation models in Study 1. The task (independent variable) was entered as a dummy-coded variable (1 = bid task; 0 = choice task). Bids/choices (dependent variable) were entered as a nominal variable (−1 = bid higher for the SS options in the bid task or chose the SS options both times in the choice task; 0 = bid the same amount for both the SS and LL options in the bid task or chose the SS and LL options once each in the choice task; 1 = bid higher for the LL options in the bid task or chose the LL options both times in the choice task). The mediators were the values of OGP and MFD. Confidence intervals of 95% were generated based on 5,000 bootstrap samples.

Figure S1 shows the results of the mediation analysis through the OGP on the bids/choices. The indirect effect of task on bids/choices through the OGP was significant ($ab = 0.013$, 95% CI = [0.007, 0.019]). The total effect of task on the bids/choices was significant ($c = 1.01$, 95% CI = [0.97, 1.04], $p < 0.001$), and the direct effect of task on bids/choices remained significant ($c' = 0.99$, 95% CI = [0.96, 1.03], $p < 0.001$) (see Figure S1).

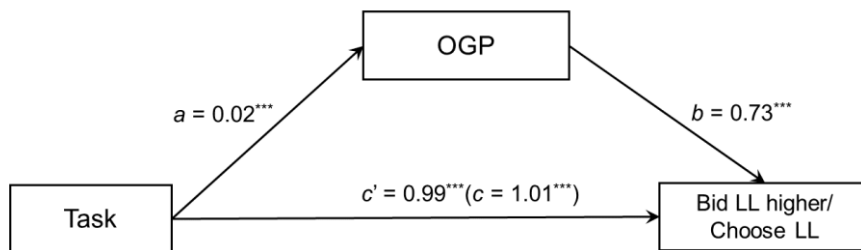


Figure S1. Results of the mediation analysis of OGP on bids/choices in Study 1. *** $p < 0.001$.

Figure S2 shows the results of the mediation analysis through the MFD on the bids/choices. The indirect effect of task on bids/choices through the MFD was revealed as nonsignificant ($ab = 0.026$, 95% CI = [−0.011, 0.061]). The total effect of task on the bids/choices was significant ($c = 1.01$, 95% CI = [0.97, 1.04], $p < 0.001$), and the direct effect of task on bids/choices is significant ($c' = 0.98$, 95% CI = [0.93, 1.03], $p < 0.001$) (see Figure S2).

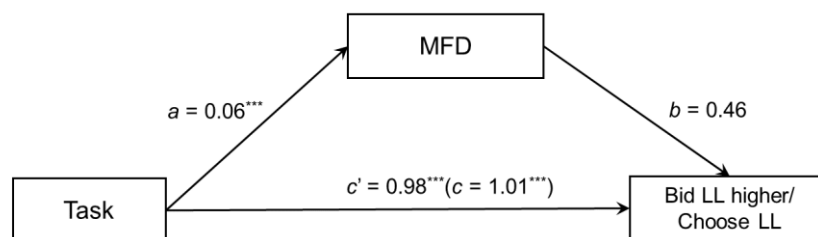


Figure S2. Results of the mediation analysis of MFD on bids/choices in Study 1. *** $p < 0.001$.

Section 3: Separate mediation analysis in Study 2

As a robustness check, we separately conducted two mediation models. The task (independent variable) was entered as a dummy-coded variable (1 = bid task; 0 = choice task). Bids/choices (dependent variable) were entered as dummy-coded variables (0 = bid higher for the SS options in the bid task or chose the SS options in the choice task; 1 = bid higher for the LL options in the bid task or chose the LL options in the choice task). The mediators were the values of OGP and MFD. Confidence intervals of 95% were generated based on 5,000 bootstrap samples.

Figure S3 shows the results of the mediation analysis through the OGP on the bids/choices. The indirect effect of task on bids/choices through the OGP was significant ($ab = 0.032$, 95% CI = [0.023, 0.042]). The total effect of task on the bids/choices was significant ($c = 0.34$, 95% CI = [0.33, 0.36], $p < 0.001$), and the direct effect of task on bids/choices remained significant ($c' = 0.31$, 95% CI = [0.29, 0.33], $p < 0.001$) (see Figure S3).

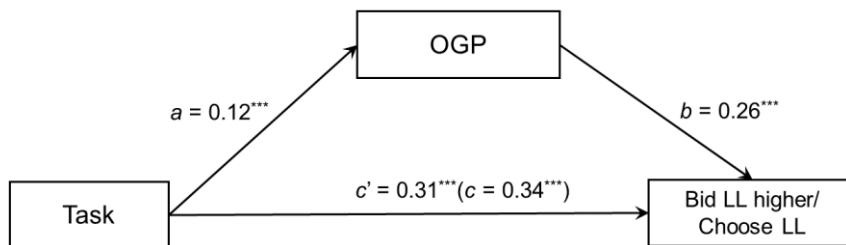


Figure S3. Results of the mediation analysis of OGP on bids/choices in Study 2. $***p < 0.001$.

Figure S4 shows the results of the mediation analysis through the MFD on the bids/choices. The indirect effect of task on bids/choices through the MFD was revealed as nonsignificant ($ab = -0.007$, 95% CI = [-0.021, 0.006]). The total effect of task on the bids/choices was significant ($c = 0.34$, 95% CI = [0.33, 0.36], $p < 0.001$), and the direct effect of task on bids/choices is significant ($c' = 0.35$, 95% CI = [0.33, 0.37], $p < 0.001$) (see Figure S4).

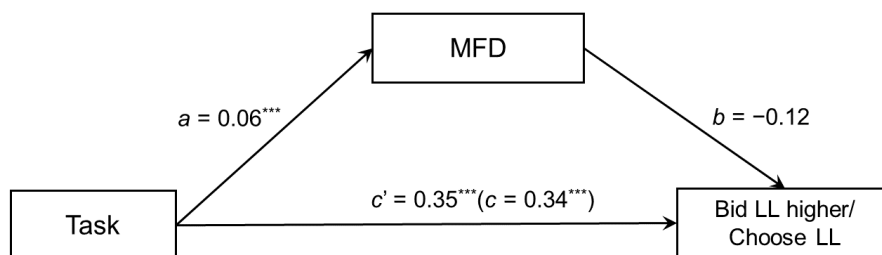


Figure S4. Results of the mediation analysis of MFD on bids/choices in Study 2. $***p < 0.001$.