

Supplementary Materials – Additional Tables

Table S1

Goodness-of-fit and the parameter estimates for every participant for expected utility theory, cumulative prospect theory, regret theory and decision field theory for Study 1.

Subject	EU			CPT						Regret			DFT	
	BIC	α	θ	BIC	α	β	δ	γ	ϕ	BIC	β	θ	BIC	θ
1	171.14	0.72	0.42	185.61	0.78	0.82	0.77	1	0.29	165.81	0.08	4.77	165.49	1.16
2	122.54	1.09	0.1	134.12	0.98	1.21	0.69	0.33	0.18	122.53	0.01	18.61	130.74	1.53
3	75.838	0.96	0.25	82.594	0.99	0.87	0.23	0.4	1.18	73.339	0.01	26.55	81.294	2.21
4	164.97	0.58	0.92	178.61	0.58	0.56	0.57	0.76	1.1	175.3	0.03	5.61	176.41	1.06
5	171.62	0.86	0.21	157.39	0.79	1.84	1	0.12	0.26	147.77	0.11	6.06	150.33	1.32
6	55.316	1.15	0.12	67.921	1.05	1.1	0.67	0.39	0.26	57.065	0.01	30.5	69.881	2.43
7	122.96	1	0.15	128.14	0.87	1.36	1	0.21	0.25	102.85	0.1	8.83	103.59	1.86
8	106.18	0.79	0.47	121.45	0.83	0.86	1	1	0.35	112.87	0.08	7.35	90.214	2.06
9	258.42	1.06	0.01	275.5	0.01	0.01	0.01	0.01	0.01	257.88	0.01	1.65	254.11	0.08
10	32.076	0.9	0.49	44.965	0.82	1.68	1	1	0.63	36.872	0.01	37.94	33.132	3.54
11	238.89	1.33	0.01	275.5	0.01	0.01	0.01	0.01	0.01	229.82	0.19	2.89	222.68	0.61
12	208.26	0.97	0.09	223.46	0.91	0.95	1	1	0.11	220.81	0.1	2.7	191.02	0.92
13	40.432	1.13	0.15	54.535	1.1	1.11	0.45	0.39	0.31	39.577	0.02	21.12	39.014	3.29
14	96.037	0.7	0.82	107.8	0.62	0.77	0.89	0.42	1.17	98.291	0.04	8.61	98.496	1.94
15	163.18	0.77	0.35	178.97	0.83	0.84	1	1	0.25	166.91	0.1	4.93	146.72	1.35
16	131.58	0.74	0.51	135.47	0.56	1.26	1	0.15	1.22	139.41	0.03	7.35	135.2	1.48
17	86.963	0.44	4.07	94.743	0.4	0.52	0.75	0.69	4.38	106.16	0.09	8.11	104.21	1.86
18	40.607	1.09	0.18	95.046	1.45	1.42	0.83	0.82	2.64	40.821	0.07	15.35	29.839	3.71
19	254.95	0.22	1.16	275.5	0.01	0.01	0.01	0.01	0.01	256.08	0.01	2.27	254.2	0.07
20	239.17	0.66	0.24	275.5	0.01	0.01	0.01	0.01	0.01	239.72	0.04	2.09	235.59	0.46
21	146.45	1.16	0.06	156.62	1.21	1.11	0.61	0.6	0.07	146.88	0.03	6.97	144.93	1.37
22	146.98	0.87	0.24	162.37	0.86	0.83	1	1	0.27	146.88	0.07	5.5	138.16	1.44
23	253.07	1.21	0.01	275.5	0.01	0.01	0.01	0.01	0.01	254.9	0.02	1.51	248.49	0.25
24	126.34	1.13	0.08	121.28	0.66	1.74	1	0.12	0.85	112.07	0.09	7.69	106.02	1.83
25	174.62	0.83	0.24	190.22	0.84	0.81	1	1	0.23	167.62	0.1	4.9	157.44	1.24
26	48.552	1.06	0.19	64.528	1.01	1	1	1	0.23	58.857	0.04	11.88	44.375	3.09
27	111.48	0.81	0.41	126.36	0.8	0.84	1	1	0.39	118.69	0.06	6.82	103.63	1.86
28	157.89	0.65	0.68	127.41	0.26	1.62	0.7	0.09	10	136.85	0.13	7.35	141.86	1.4
29	169.41	0.57	0.94	185.32	0.6	0.59	1	1	0.76	166.4	0.11	5.11	157.56	1.24
30	62.662	0.92	0.33	76.644	0.95	0.94	0.58	0.85	0.33	64.123	0.01	28.64	73.238	2.36
31	89.714	0.77	0.59	101.11	0.68	1.01	1	0.26	0.87	91.416	0.06	8.42	82.529	2.19
32	122.87	1.05	0.12	138.11	1.01	1.04	0.96	1	0.13	126.42	0.05	6.6	117.31	1.69
33	88.082	1.3	0.05	92.073	0.93	1.66	1	0.14	0.33	83.148	0.08	9.6	76.468	2.3
34	160.91	0.84	0.25	175.95	0.83	0.86	1	1	0.25	161.22	0.08	4.96	148.2	1.34
35	257.12	1.11	0.01	275.5	0.01	0.01	0.01	0.01	0.01	256.07	0.18	0.92	250.53	0.21

Table S2

Goodness-of-fit and the parameter estimates for every participant for expected utility theory, cumulative prospect theory, regret theory and decision field theory for Study 2.

Subject	EU			CPT						Regret			DFT	
	BIC	α	θ	BIC	α	β	δ	γ	ϕ	BIC	β	θ	BIC	θ
1	180.92	0.76	0.32	184.05	0.78	0.94	1	0.9	0.19	184.18	0.01	6.52	178.72	1.19
2	69.50	0.55	2.23	97.078	1.17	1.26	0.97	0.96	0.07	96.91	0.03	7.51	82.86	2.61
3	243.22	1.3	0.01	257.35	0.73	0.98	1	1	0.06	275.45	0.12	0.84	234.04	0.53
4	68.84	0.82	0.52	91.259	1.37	1.44	0.85	1	0.03	91.66	0.03	7.71	65.87	3.02
5	75.76	0.95	0.26	89.672	1.29	1.3	1	1	0.05	89.36	0.05	6.05	58.44	3.24
6	40.24	0.78	0.82	95.046	1.97	1.94	0.89	0.88	5.09	95.05	0.03	9.93	30.17	4.47
7	169.92	1.52	0.01	185.41	1.44	1.57	1	1	0.01	187.18	0.09	2.58	150.48	1.52
8	252.13	0.15	3.07	275.5	0.01	0.01	0.01	0.01	0.01	275.5	0.01	1.83	248.42	0.28
9	48.58	1.11	0.15	67.053	1.57	1.53	0.78	1	0.02	67.25	0.04	8.77	44.54	3.73
10	198.68	0.44	0.44	203.78	1.26	1.34	0.29	0.4	0.04	204.13	0.01	7.33	198.93	0.96
11	209.50	0.71	0.31	233.97	1.29	1.38	1	1	0.01	232.44	0.08	1.75	196.85	0.98
12	120.38	0.72	0.61	144.4	1.14	1.13	1	1	0.08	145.36	0.06	3.68	104.47	2.19
13	106.63	0.71	0.7	121.07	1.19	1.38	0.9	1	0.05	126.24	0.04	5.12	100.20	2.27
14	46.32	1.36	0.05	60.323	1.72	1.6	0.54	1	0.02	80.66	0.04	9.69	38.486	4.01
15	73.74	0.73	0.79	100.8	1.3	1.33	0.76	1	0.04	105.28	0.04	6.98	66.047	3.02
16	80.62	0.78	0.58	96.678	1.48	1.53	0.51	0.71	0.02	106.38	0.03	9.86	71.06	2.89
17	153.98	0.3	5	192.17	0.79	0.91	1	0.45	0.23	192.22	0.01	7.88	172.93	1.25
18	69.47	0.93	0.3	84.526	1.49	1.31	1	1	0.04	97.61	0.04	6.49	60.70	3.17
19	131.06	0.84	0.31	160.65	1.26	1.28	1	0.99	0.04	163.88	0.03	4.29	131.90	1.77
20	135.08	0.59	1.09	162.8	1.08	1.25	1	1	0.05	165.07	0.04	3.89	129.45	1.81
21	176.85	0.55	0.98	198.16	0.88	1.03	1	1	0.11	198.25	0.04	2.88	176.21	1.22
22	162.51	0.96	0.14	185.65	1.48	1.55	0.6	0.65	0.01	196.50	0.02	5.28	159.82	1.41
23	100.87	1.47	0.02	124.04	1.55	1.56	1	1	0.01	132.58	0.06	4.65	83.69	2.59
24	183.61	1.49	0.01	204.91	1.39	1.54	1	1	0.01	214.31	0.05	2.01	188.72	1.07