Supplemental material

Table S1

Sociodemographic characteristics of the sample.

Variable	N	%
Gender		
Male	493	49.3
Female	500	50
None of the above	7	0.7
Age		
12	199	19.9
13	199	19.9
14	203	20.3
15	200	20
16	199	19.9
City size		
0-10.000	231	23.1
10.001-50.000	255	25.5
50.001-200.000	226	22.6
Más de 200.000	288	28.8
Monthly family income		
Utntil 2160	419	41.9
Between 216-4000	474	47.4
More than 4000	107	10.7
Family studies		
No studies	3	0.3
Primary	39	3.9
Basic	382	38.2
University	445	44.5
Master / PhD	131	13.1
Ethnicity		
European	928	92.8
East Europe	38	3.8
Gipsy	3	0.3
Asian	6	0.6
Latin-American	17	1.7
Afro-descendant or black	2	0.2
Arabic or Maghrevi	4	0.4
Prefers not to say	15	1.5
Educative Center		
Public	695	69.5
Concerted	256	25.6
Privat	49	4.9

Mental disorder, illness or disability		
Yes	73	7.3
No	927	92.7

Table S2

MSA — Monotonicity Analysis (see: Stochl et al., 2012)

Item	Item H	#ac	#vi	#vi/#ac	maxvi	sum	sum/#ac	zmax	#zsig	crit
DISCRI1	0.42	140	0	0	0	0	0	0	0	0
DISCRI2	0.43	140	1	0.01	0.05	0.05	0.0003	0.67	0	5
DISCRI3	0.37	140	0	0	0	0	0	0	0	0
DISCRI4	0.38	140	0	0	0	0	0	0	0	0
DISCRI5	0.34	126	6	0.05	0.08	0.37	0.003	1.28	0	29
DISCRI6	0.37	140	0	0	0	0	0	0	0	0
DISCRI7	0.35	133	10	0.08	0.08	0.51	0.0038	1.42	0	34
DISCRI8	0.35	140	0	0	0	0	0	0	0	0
DISCRI9	0.35	140	0	0	0	0	0	0	0	0

Note. #ac = Active Comparisons; #vi = Violations; # zsig = Significant violations

Table S3

Principal component analysis of the residuals

Eigenvalues	Proportion of variance
1.44	16.4%
1.32	16%
1.26	13.5%
1.12	12.5%
1.01	12%

Figure S1

Q-Q Plot of Mahalanobis D^2 vs Quantiles of χ^2

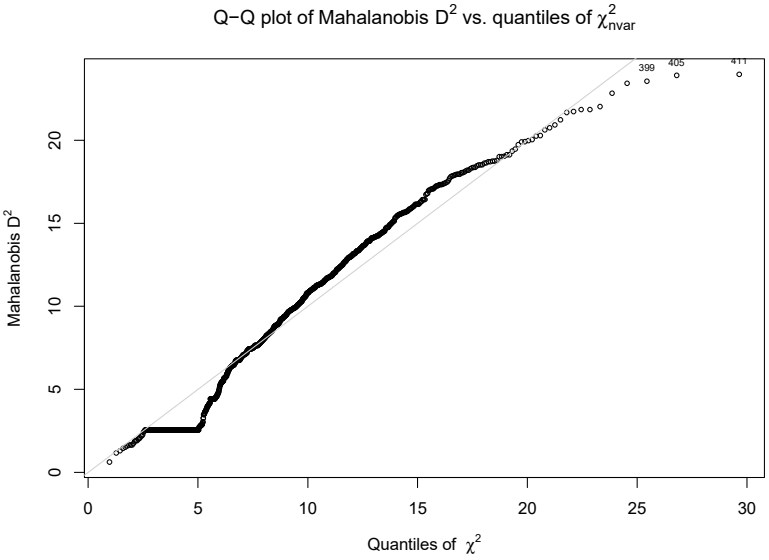


Figure S2

Distribución de Errores de Guttman

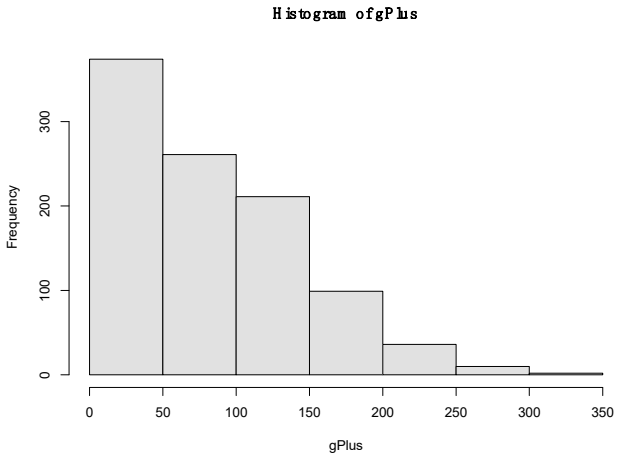


Figure S3

Floor/ceiling effects

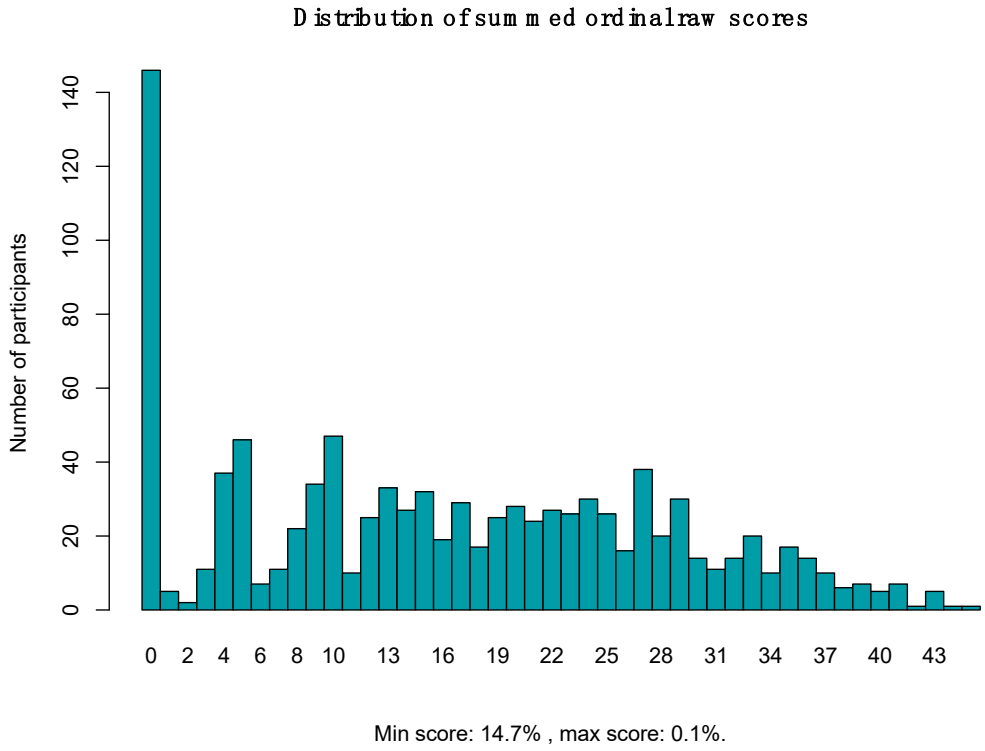
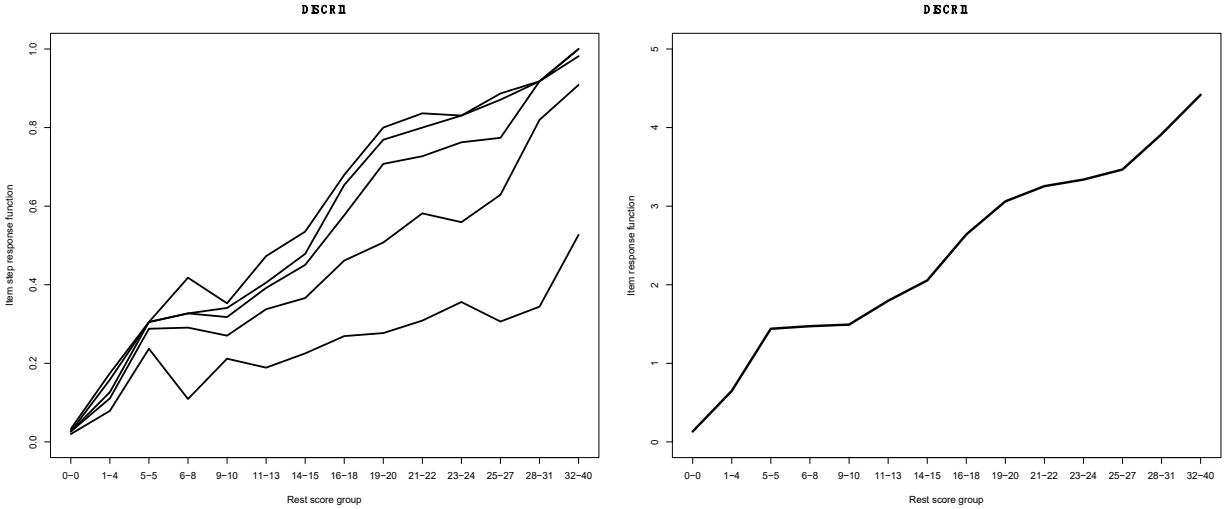
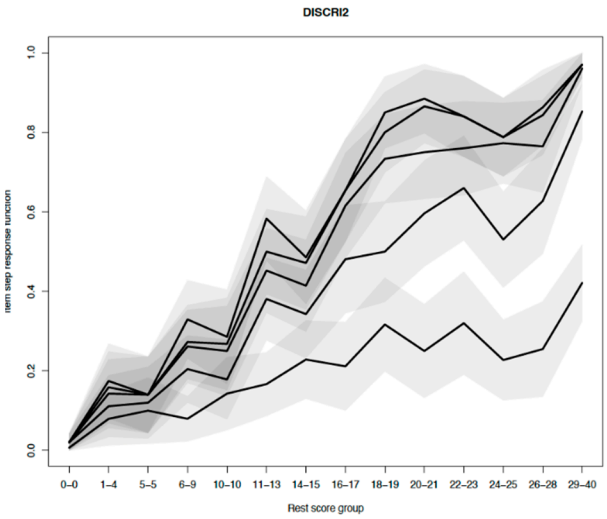
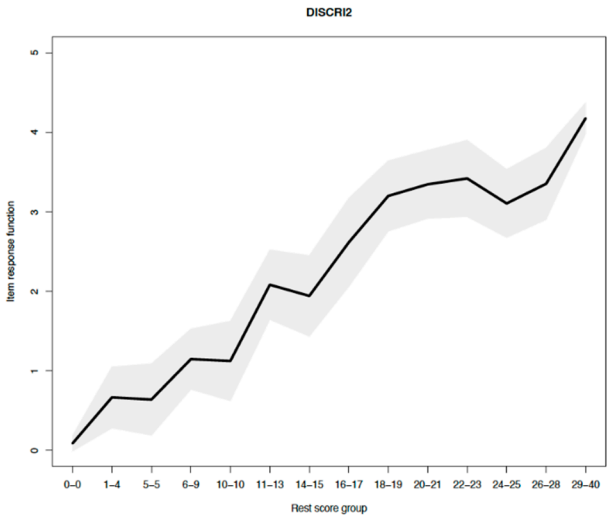


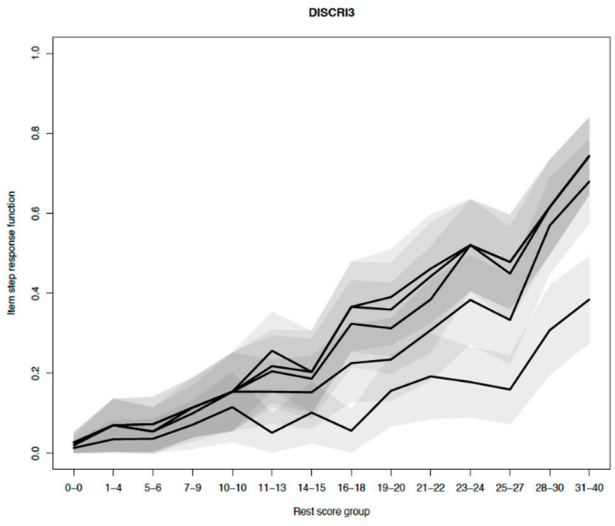
Figure S4

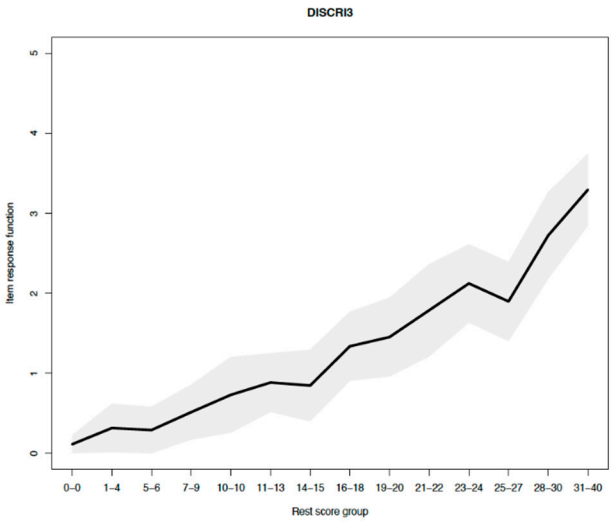
Step Response Function (ISRF)

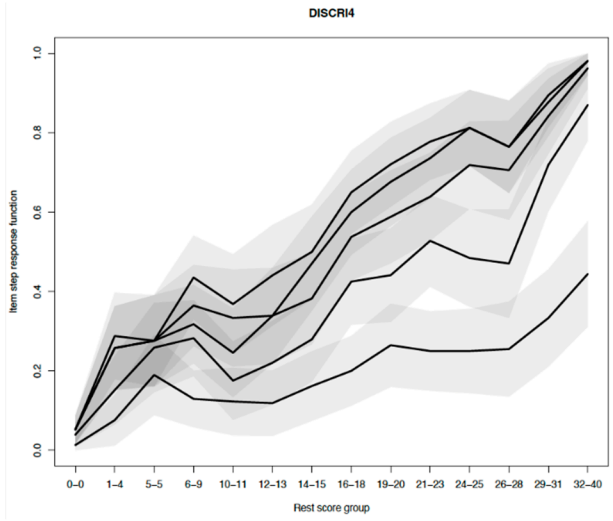


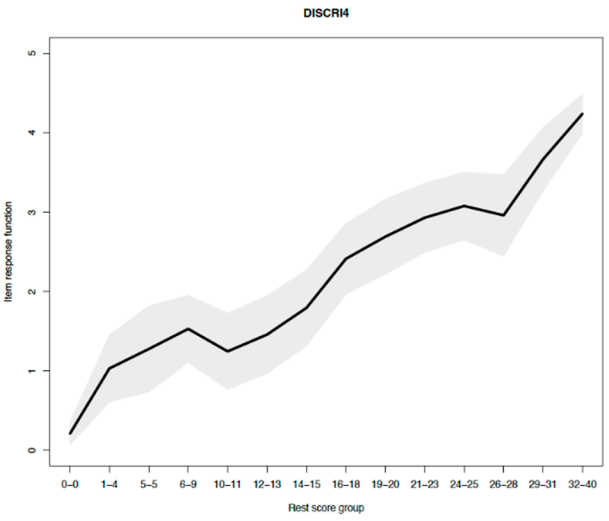

DISCRI2
Item step response function
0.0
0.2
0.4
0.6
0.8
1.0
0–0
1–4
5–5
6–9
10–10
11–13
14–15
16–17
18–19
20–21
22–23
24–25
26–28
29–40
Rest score group

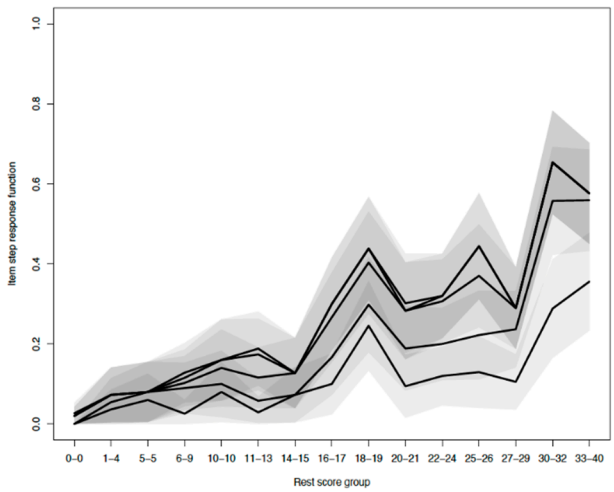

DISCRI2
Item response function
0
1
2
3
4
5
0–0
1–4
5–5
6–9
10–10
11–13
14–15
16–17
18–19
20–21
22–23
24–25
26–28
29–40
Rest score group

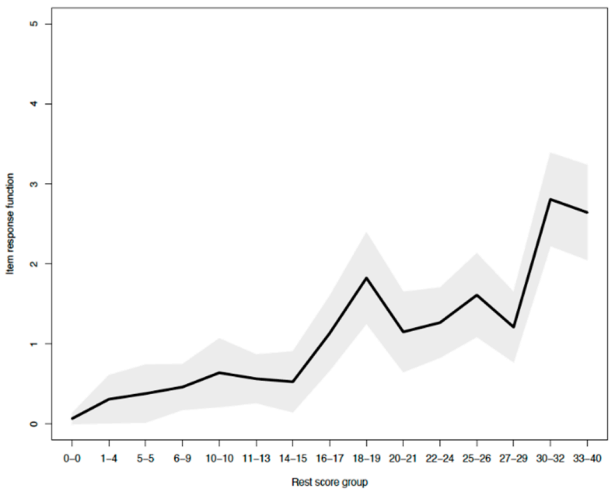

DISCRI3
Item step response function
0.0
0.2
0.4
0.6
0.8
1.0
0–0
1–4
5–6
7–9
10–10
11–13
14–15
16–18
19–20
21–22
23–24
25–27
28–30
31–40
Rest score group

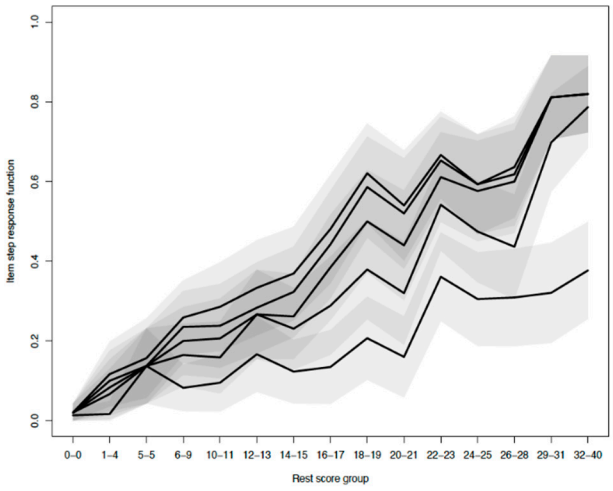

DISCRI3
Item response function
0
1
2
3
4
5
0–0
1–4
5–6
7–9
10–10
11–13
14–15
16–18
19–20
21–22
23–24
25–27
28–30
31–40
Rest score group

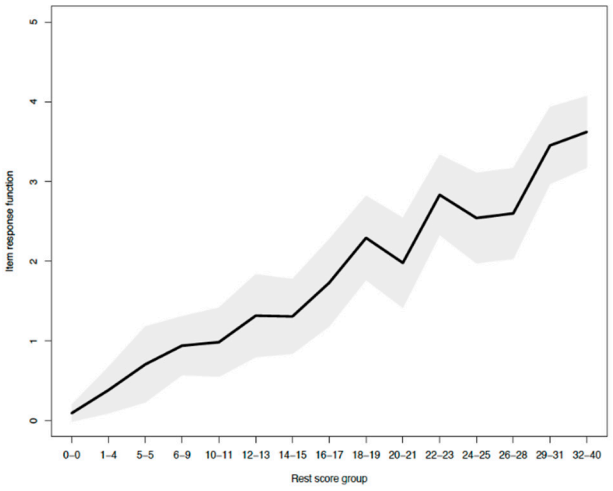

DISCRI4
Item step response function
0.0
0.2
0.4
0.6
0.8
1.0
0–0
1–4
5–5
6–9
10–11
12–13
14–15
16–18
19–20
21–23
24–25
26–28
29–31
32–40
Rest score group


DISCRI4
Item response function
0
1
2
3
4
5
0–0
1–4
5–5
6–9
10–11
12–13
14–15
16–18
19–20
21–23
24–25
26–28
29–31
32–40
Rest score group

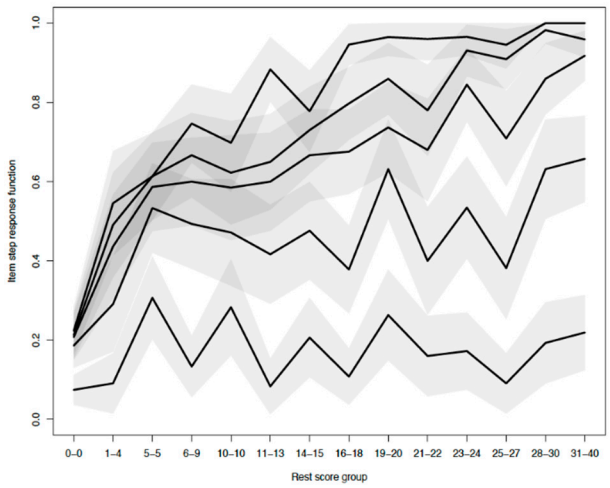

DISCRI5
Item step response function
0.0
0.2
0.4
0.6
0.8
1.0
0–0
1–4
5–5
6–9
10–10
11–13
14–15
16–17
18–19
20–21
22–24
25–26
27–29
30–32
33–40
Rest score group


DISCRI5
Item response function
0
1
2
3
4
5
0–0
1–4
5–5
6–9
10–10
11–13
14–15
16–17
18–19
20–21
22–24
25–26
27–29
30–32
33–40
Rest score group

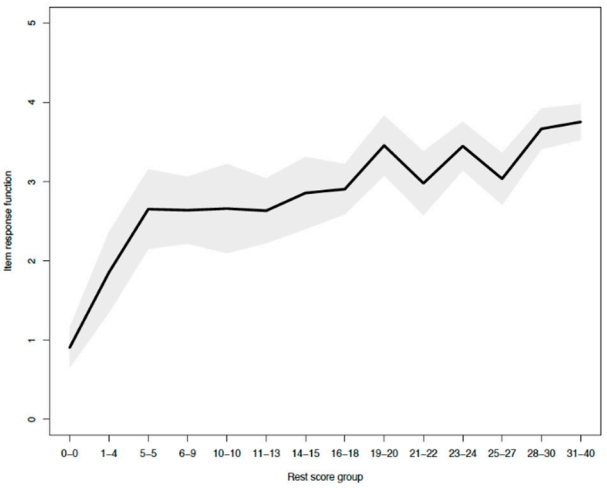




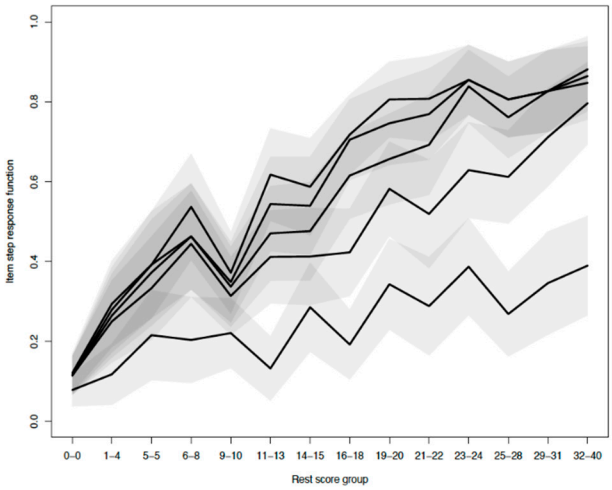
DISCRI7



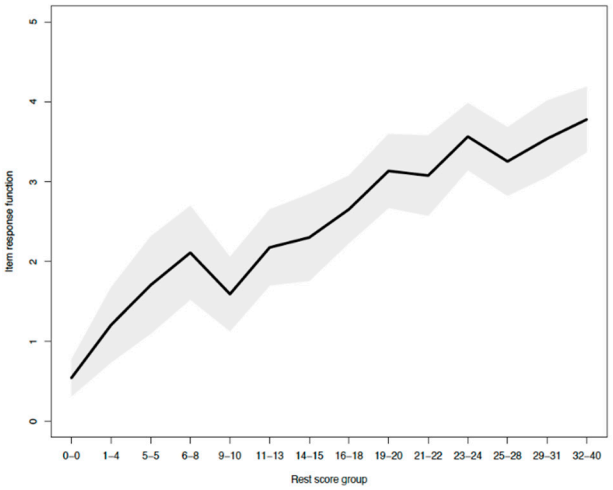
DISCRI7

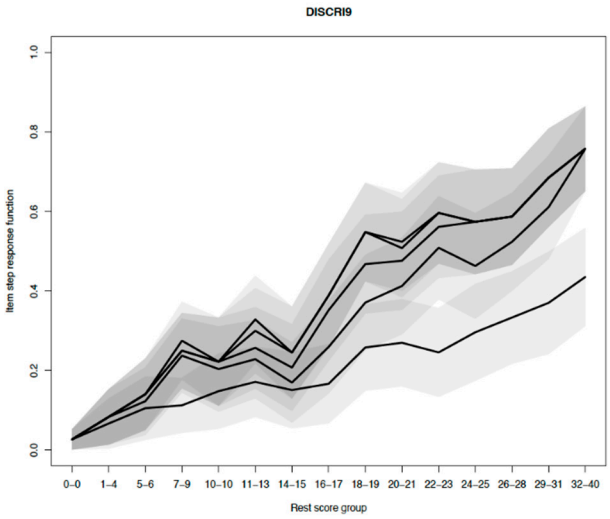


DISCRI8



DISCRI8




DISCRI9
Item step response function
0.0
0.2
0.4
0.6
0.8
1.0
0–0
1–4
5–6
7–9
10–10
11–13
14–15
16–17
18–19
20–21
22–23
24–25
26–28
29–31
32–40
Rest score group

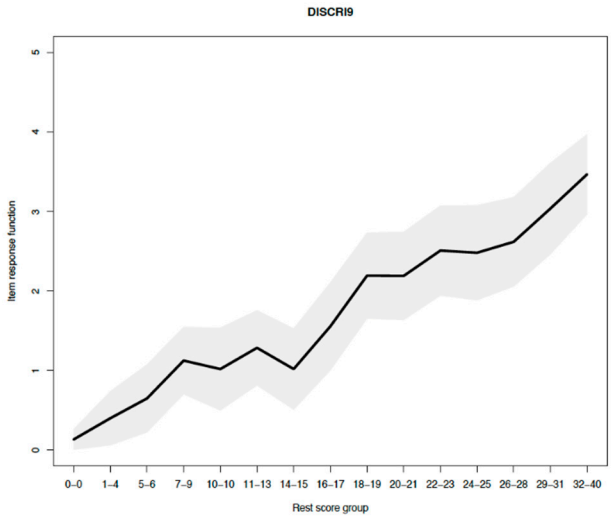
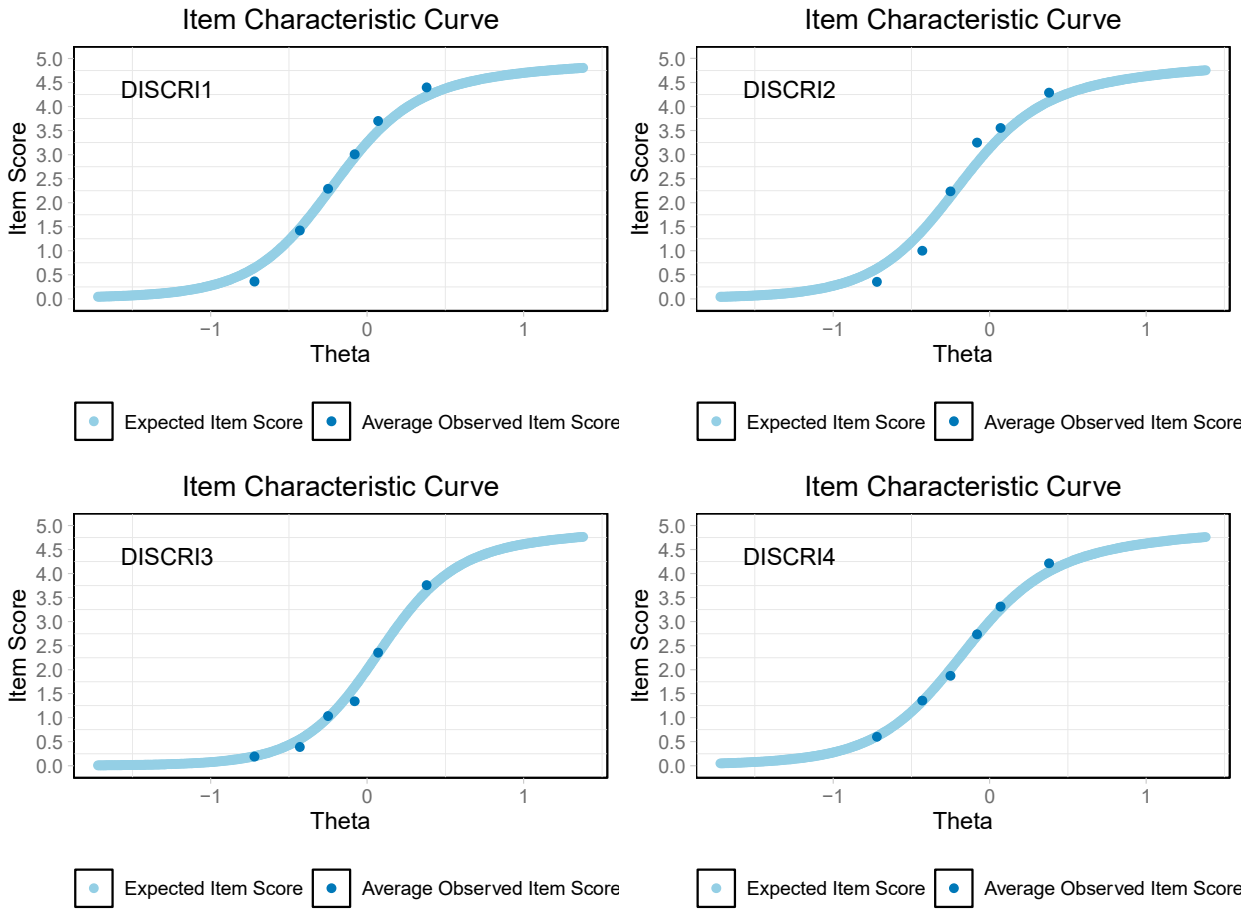
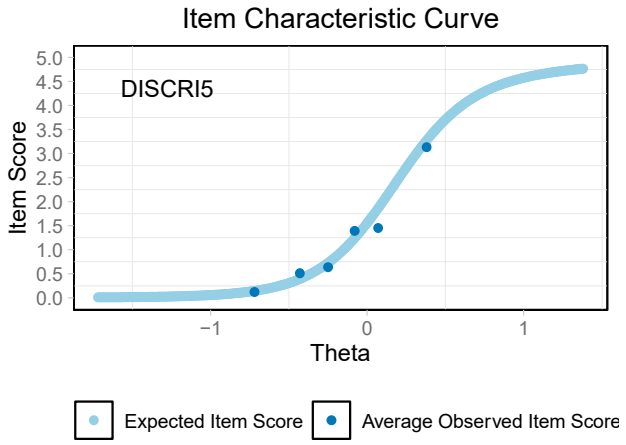
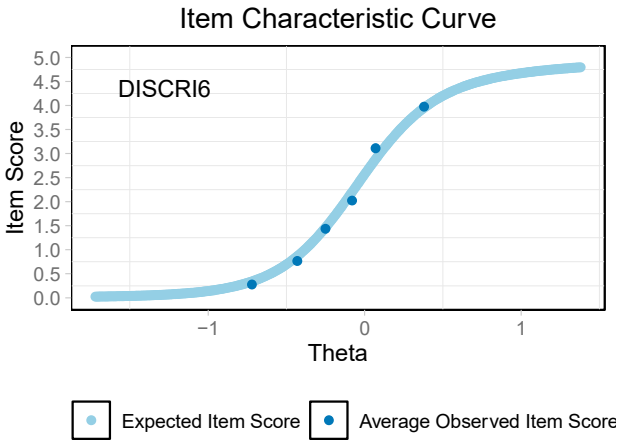

DISCRI9
Item response function
0
1
2
3
4
5
0–0
1–4
5–6
7–9
10–10
11–13
14–15
16–17
18–19
20–21
22–23
24–25
26–28
29–31
32–40
Rest score group

Figure S5

Item Characteristics Curves




Item Characteristic Curve
DISCRI5
Item Score
Theta
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1
0
1


Item Characteristic Curve
DISCRI6
Item Score
Theta
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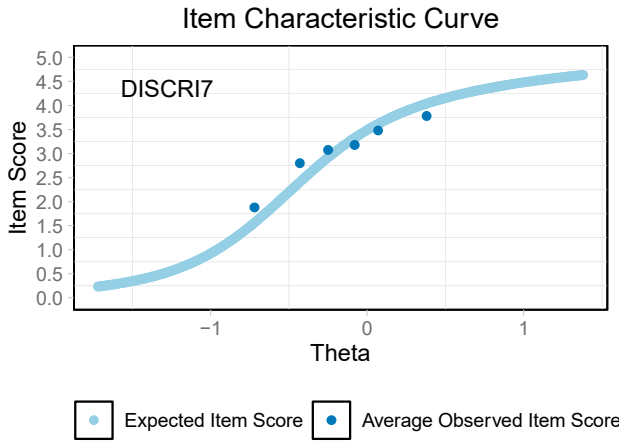
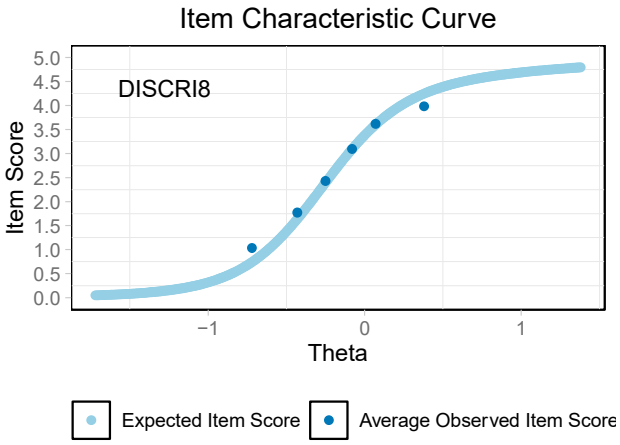
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1
0
1


Item Characteristic Curve
DISCRI7
Item Score
Theta
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1
0
1


Item Characteristic Curve
DISCRI8
Item Score
Theta
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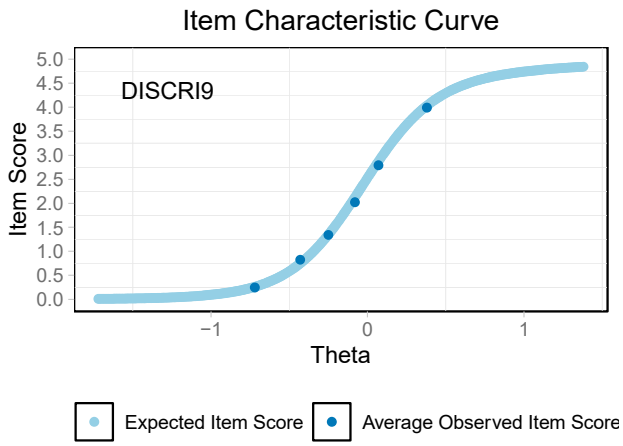
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1
0
1


Item Characteristic Curve
DISCRI9
Item Score
Theta
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−1
0
1

Expected Item Score
Average Observed Item Score

Expected Item Score
Average Observed Item Score

Expected Item Score
Average Observed Item Score

Expected Item Score
Average Observed Item Score

Expected Item Score
Average Observed Item Score