ITEM RESPONSE THEORY (IRT)

- Binary response models
  - One-parameter logistic (1PL)
  - Two-parameter logistic (2PL)
  - Three-parameter logistic (3PL)
- Ordinal response models
  - Graded response
  - Partial credit
  - Rating scale
- Categorical response models
  - Nominal response
- Hybrid models with differing response types
- Multiple-group models
- Graphs
  - Item characteristic curve
  - Test characteristic curve
  - Item information function
  - Test information function
- Differential item functioning (DIF)

Fit your model
1PL model for items q1-q8
   . irt 1pl q1-q8

2PL model for q1-q8
   . irt 2pl q1-q8

Partial credit model for q9-q15
   . irt pcm q9-q15

Rating scale model for q9-q15
   . irt rsm q9-q15

Graded-response model for q9-q15
   . irt grm q9-q15

Hybrid model
   . irt (2pl q1-q8) (grm q9-q15)

Multiple-group model
   . irt 2pl q1-q8, group(grp)
Graph the results

Item characteristic curve
. irtgraph icc ...

Test information function
. irtgraph tif, se

Test characteristic curve
. irtgraph tcc, scorelines(2 4 6)

Explore the results

Sort items by difficulty

Use commands or the IRT Control Panel