Latent Factor

Latent response variables

Ordinal observed variables

$$y\_{1}$$

$$y\_{2}$$

$$y\_{3}$$

$$y\_{4}$$

$$y\_{5}$$

$$λ\_{11}$$

$$λ\_{31}$$

$$λ\_{41}$$

$$λ\_{51}$$

$$λ\_{21}$$

$$y\_{1}$$

Latent response variables

Ordinal observed variables

Thresholds

$$y\_{1}$$

$$τ\_{11}$$

$$τ\_{12}$$

$$τ\_{13}$$

$$τ\_{14}$$

Observed categories

$c$ = strongly disagree

$c\_{+1}$= disagree

$c\_{+2}$= neither

$c\_{+3}$= agree

$c\_{+4}$= strongly agree

Latent response

variables

Ordinal observed

variables

$$y\_{1}$$

$$y\_{2}$$

$$ρ\_{21}$$

$$τ\_{11}-τ\_{14}$$

$$τ\_{21}-τ\_{24}$$

Thresholds

Polychoric

correlation