

# Average Variance Extracted

Test: Average Variance Extracted

Design: Construct-specific convergent variance captured by standardized CFA loadings.

Variables: G1, G2, G3, famrel, freetime, goout

Null hypothesis: AVE is at or below .50 for a construct.

Formula:  $AVE = \frac{\sum(\lambda_i^2)}{[\sum(\lambda_i^2) + \sum(\theta_i)]}$ .

Source rows: 649

Calculated metrics:

academic\_ave: 0.872486216310233

social\_ave: 0.268100608744398

minimum\_ave: 0.268100608744398

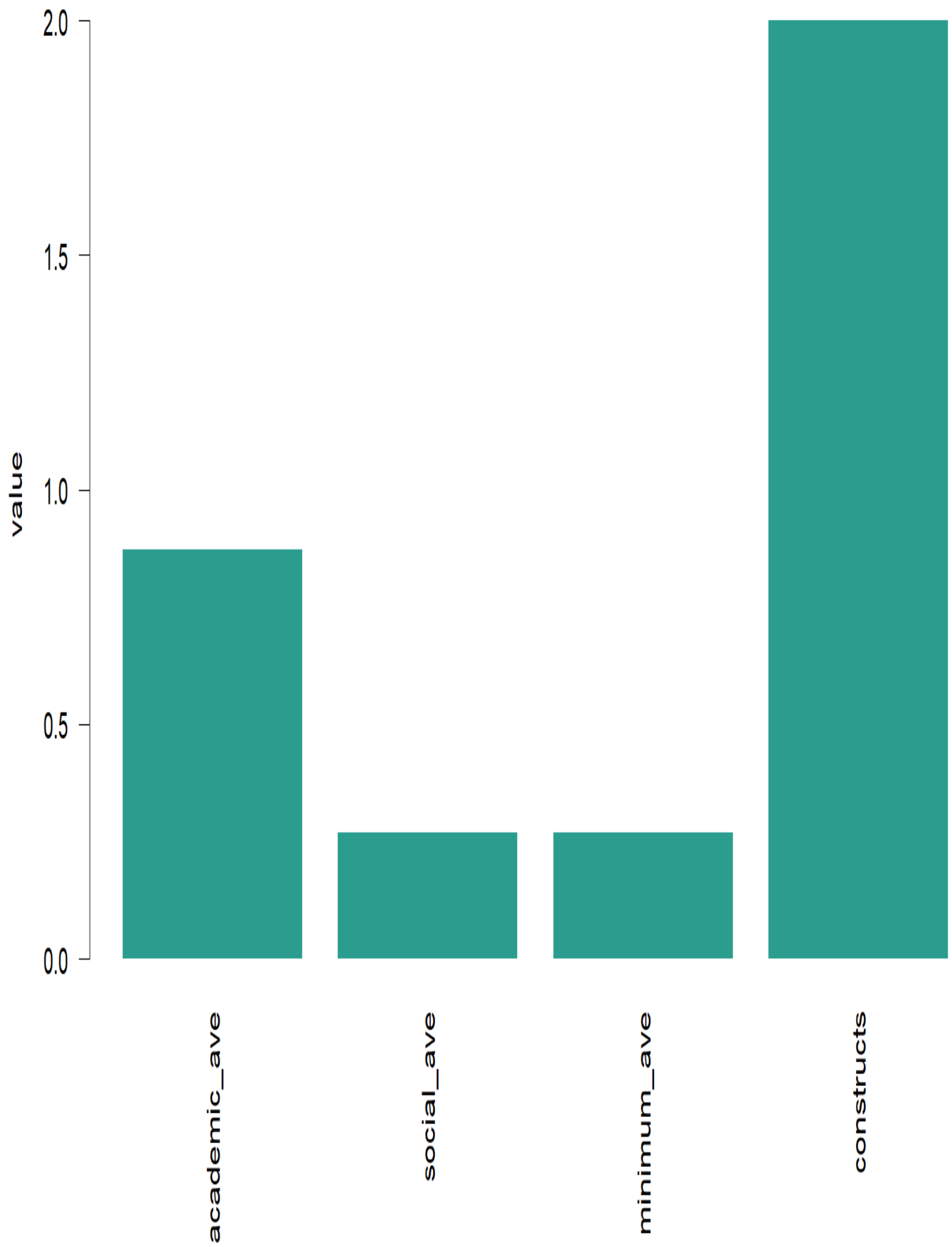
constructs: 2

Interpretation:

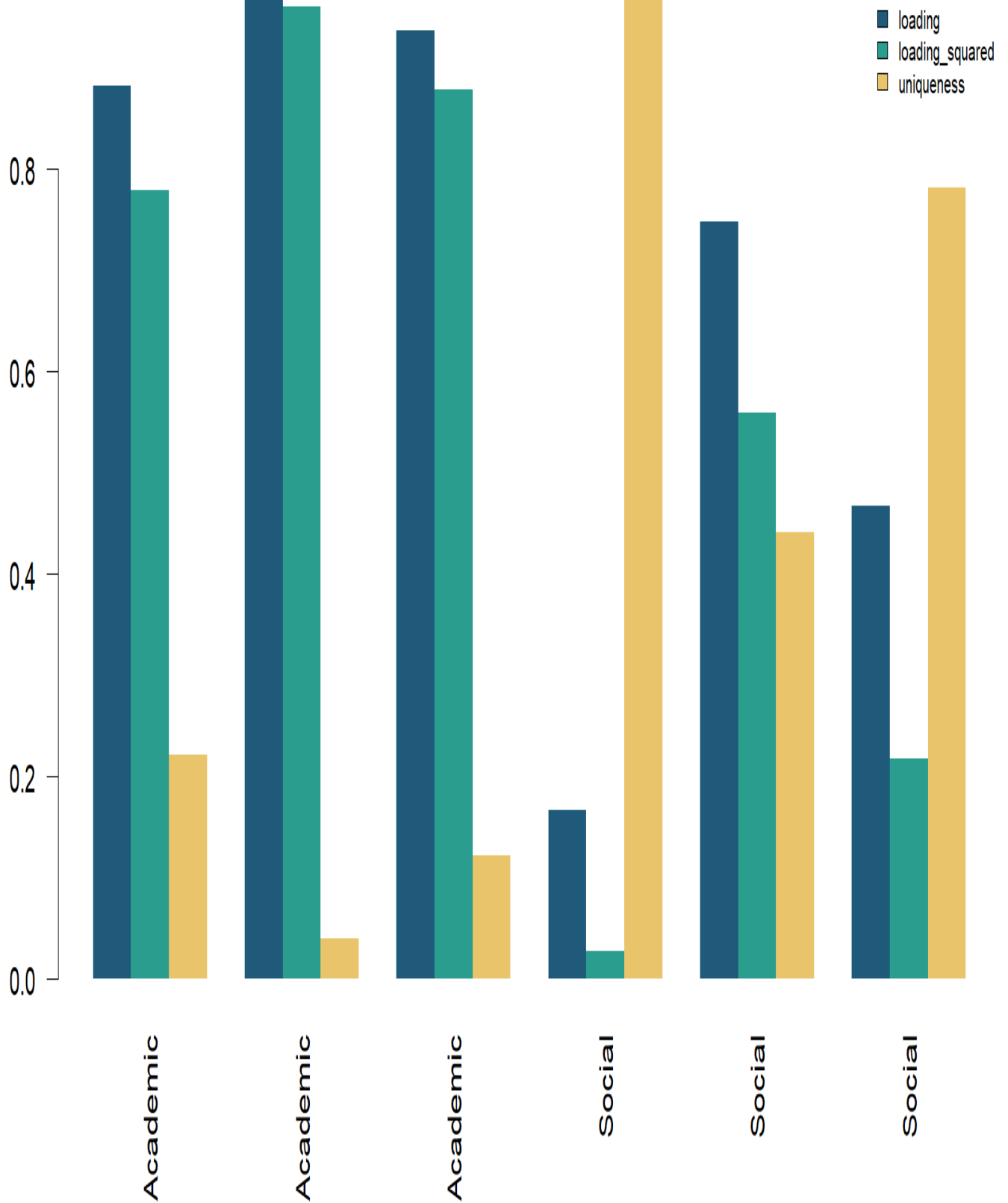
AVE is computed separately from squared loadings and uniquenesses.

Minimum AVE 0.268100608744398

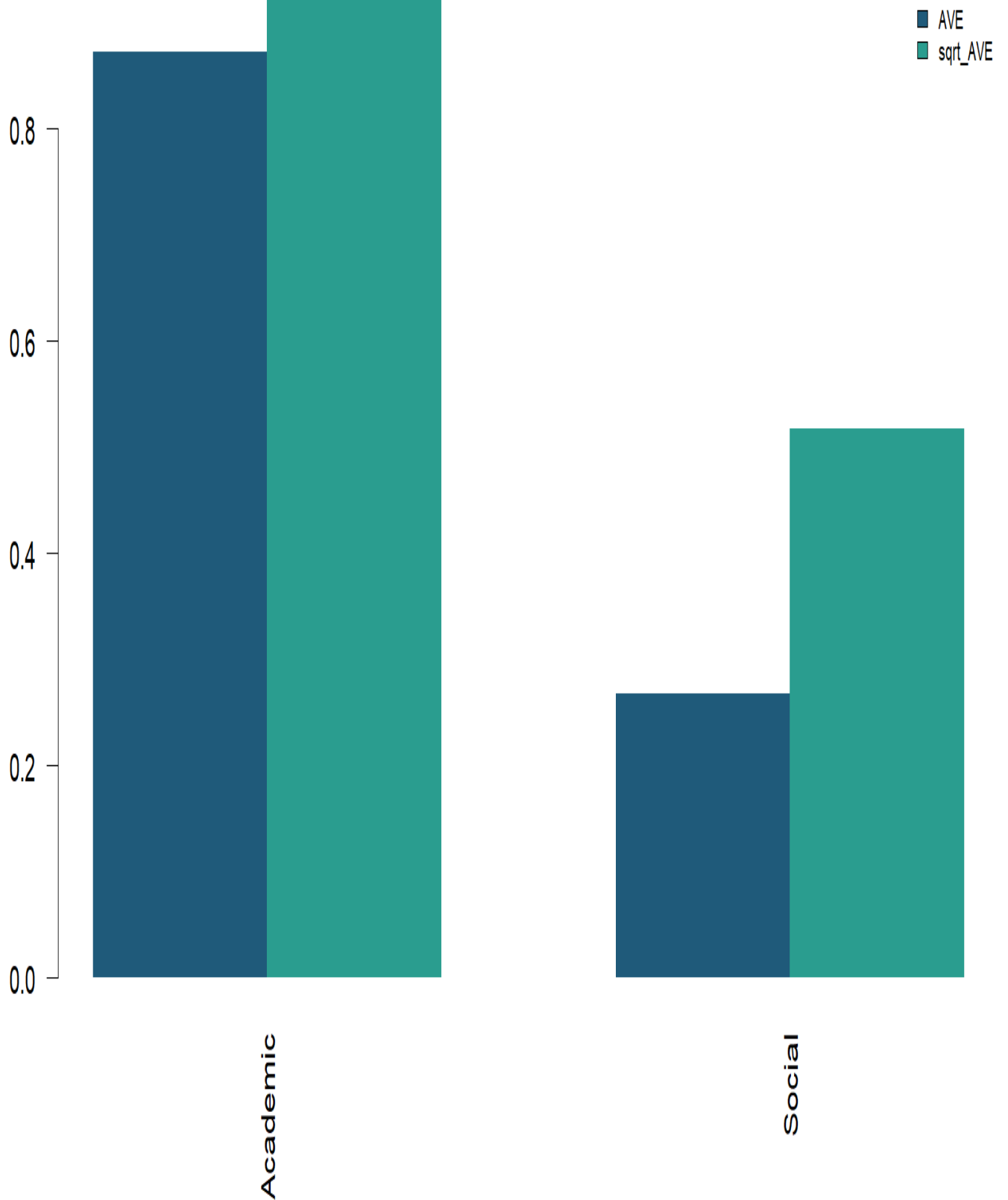
Average Variance Extracted - primary metrics



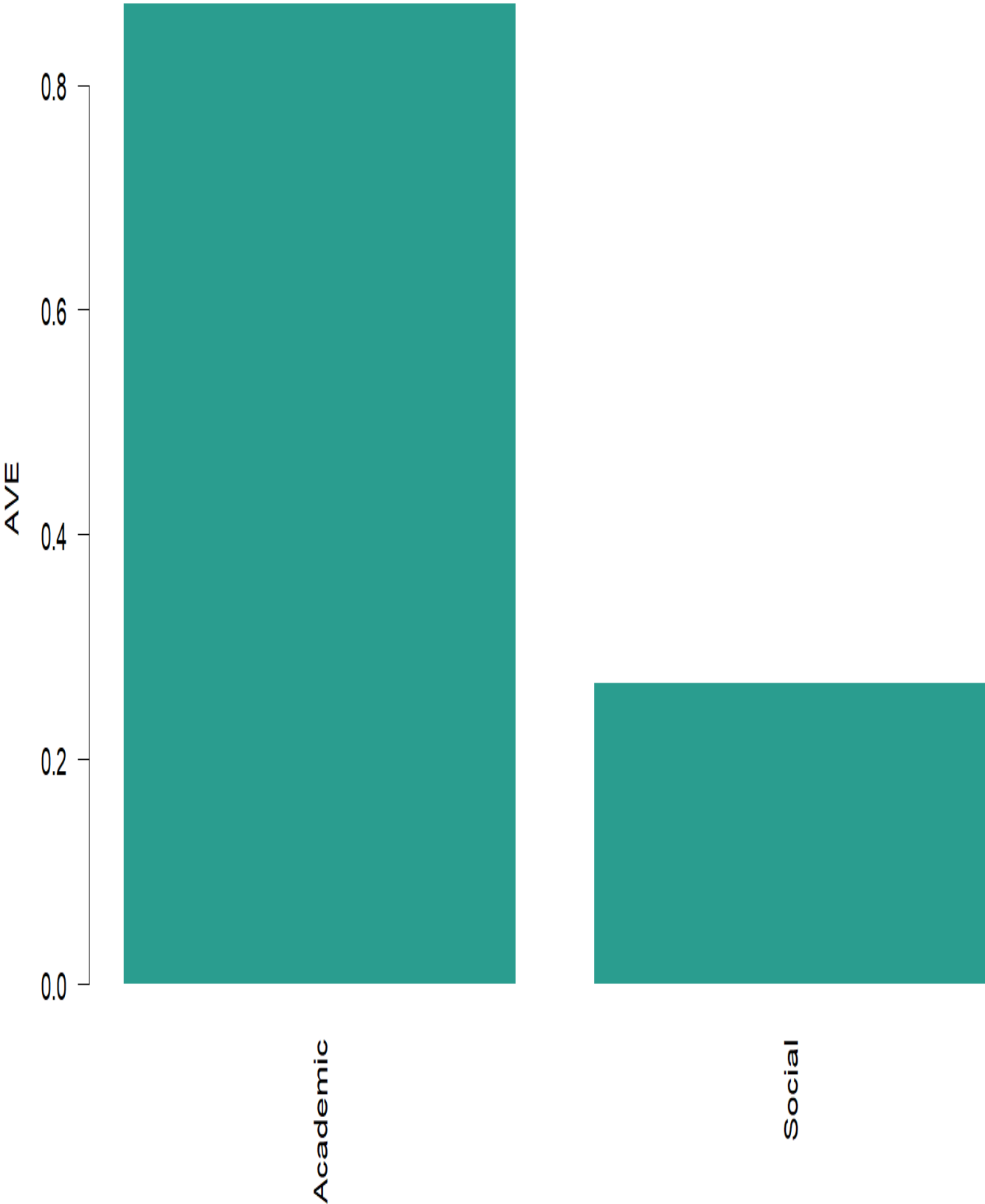
Average Variance Extracted - standardized loadings



Average Variance Extracted - ave by construct



Average Variance Extracted - ave threshold check



## Average Variance Extracted verified results

