

Confirmatory Composite Analysis

Test: Confirmatory Composite Analysis

Design: Fixed weighted composites evaluated by their outer loadings and reproduced correlation matrix.

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

Null hypothesis: The prespecified two-composite model has inadequate reliability or residual fit.

Formula: Composite scores= Xw ; outer loading= $\text{cor}(x_i, \text{score})$; SRMR= $\sqrt{\text{mean residual correlation}^2}$.

Source rows: 649

Calculated metrics:

academic_composite_reliability: 0.96939525917592

social_composite_reliability: 0.712839325533712

composite_correlation: -0.0887746387225281

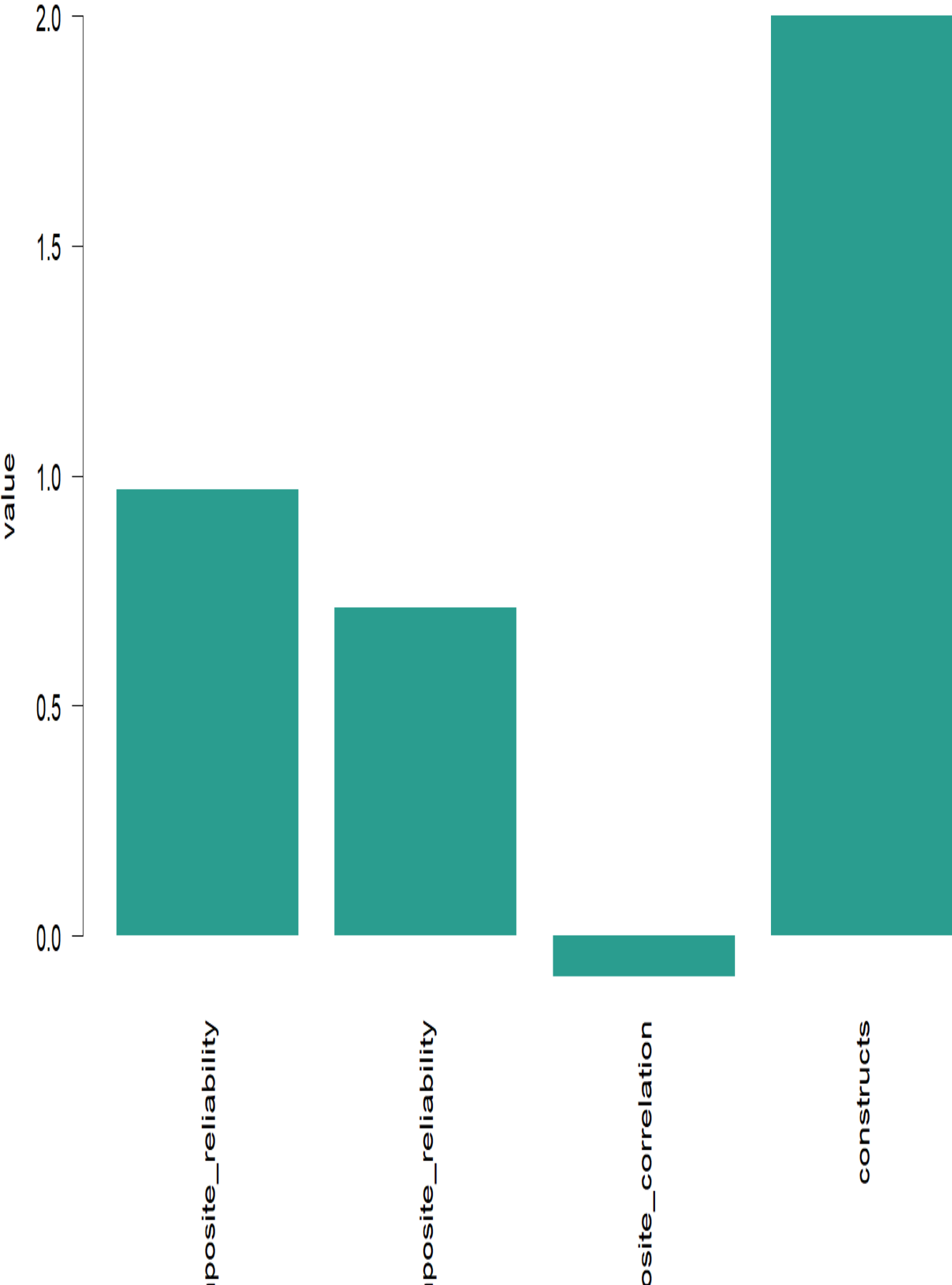
constructs: 2

Interpretation:

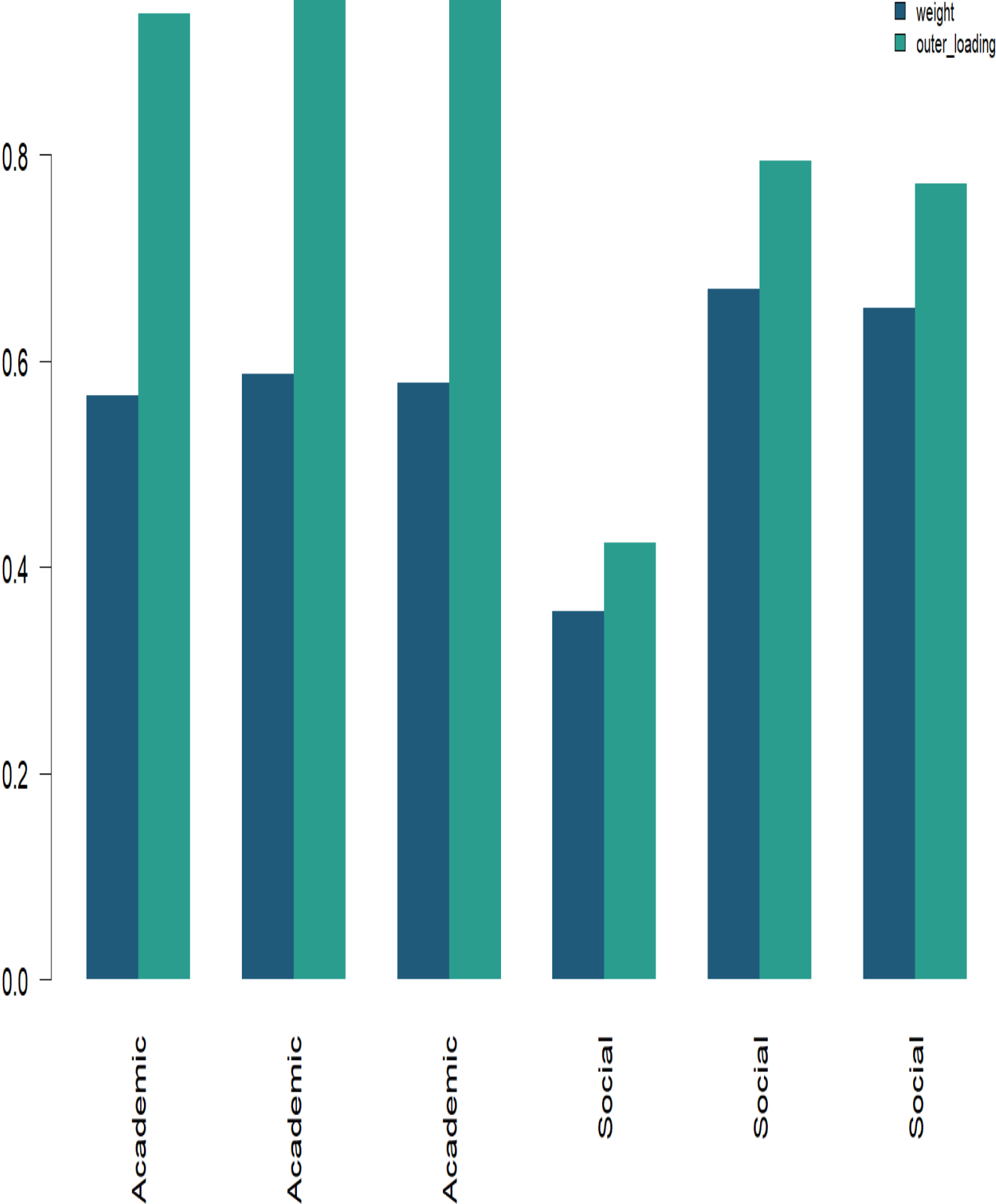
CCA evaluates exact weighted composites.

Composite correlation -0.0887746387225281

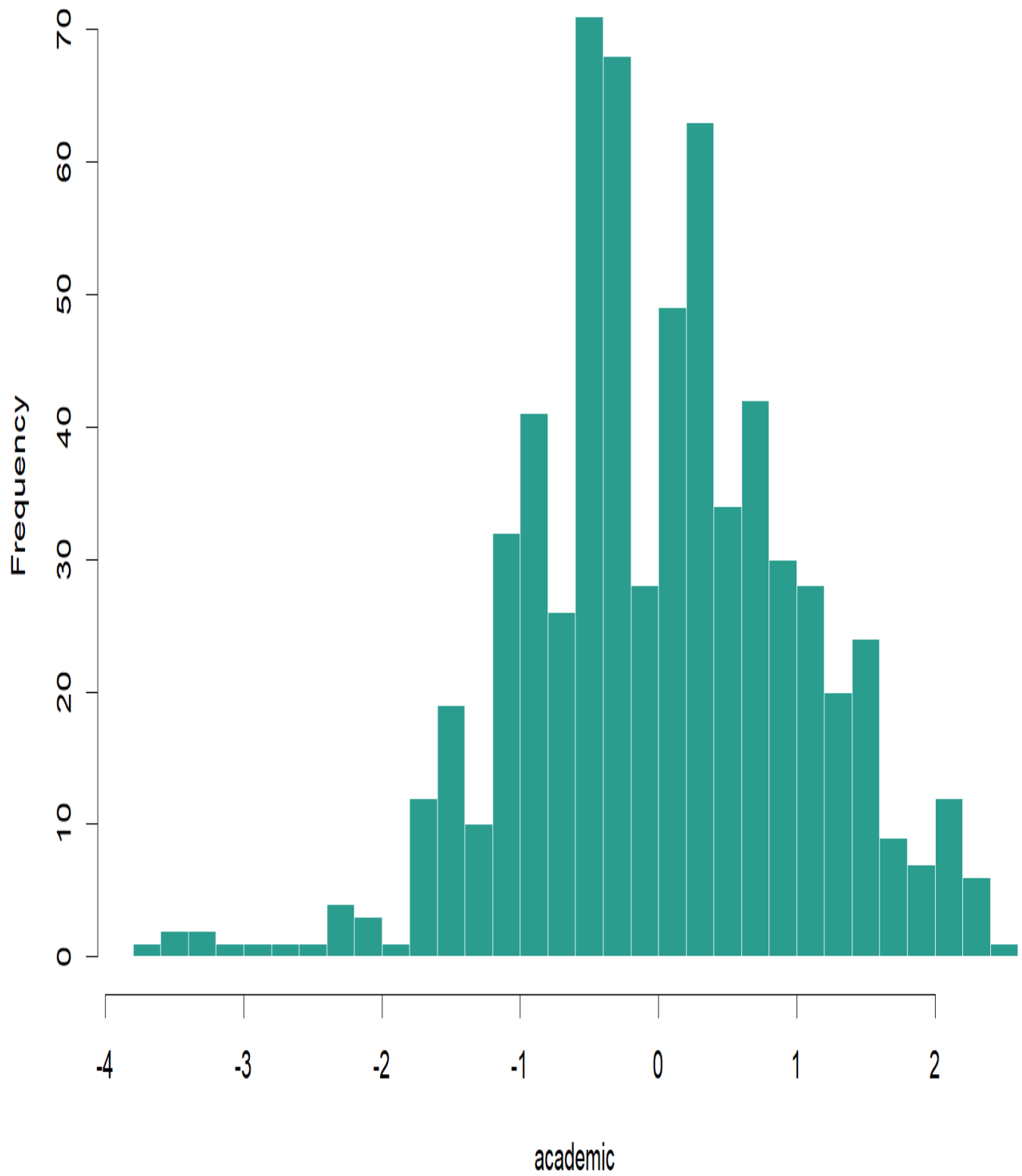
Confirmatory Composite Analysis - primary metrics



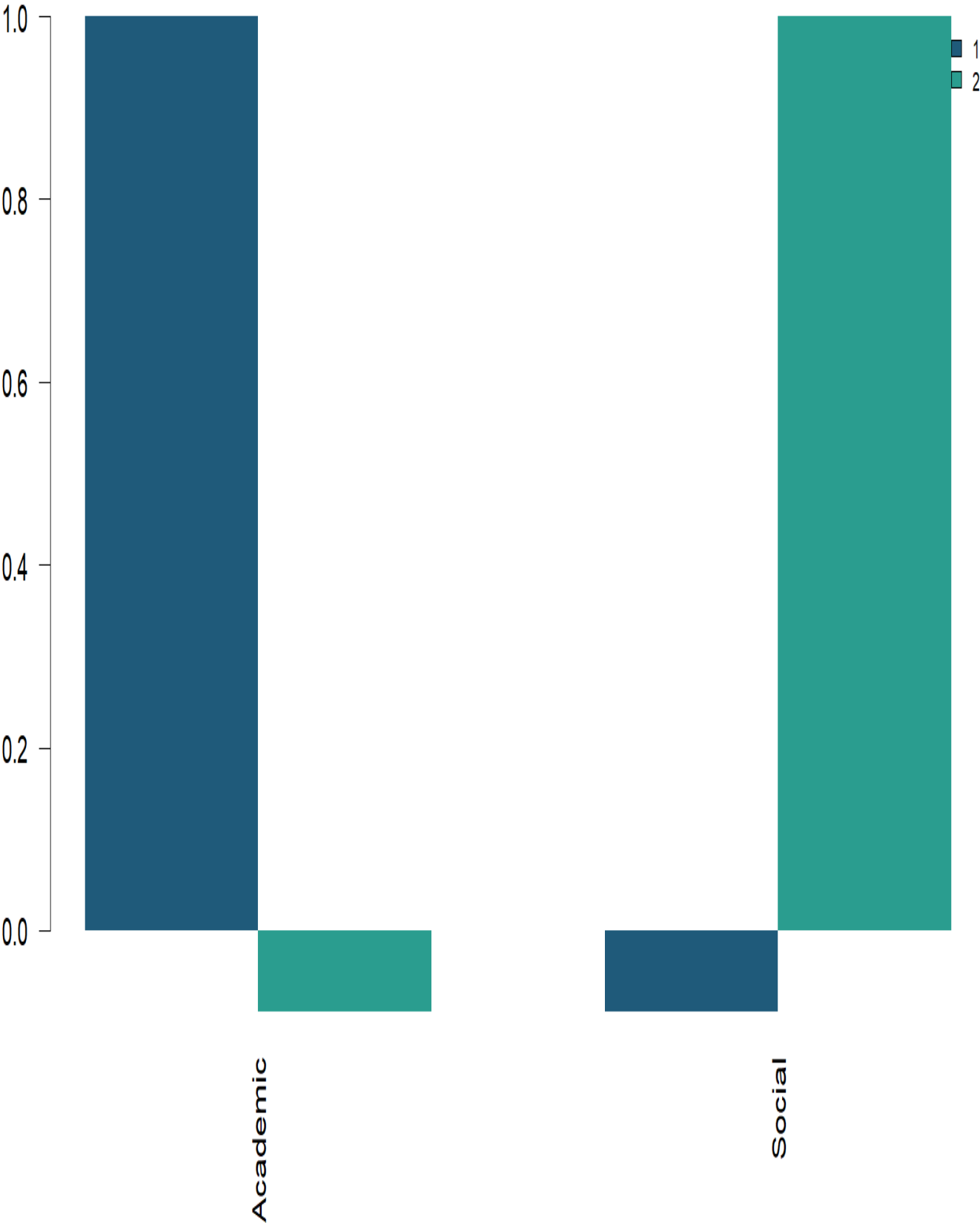
Confirmatory Composite Analysis - composite weights



Confirmatory Composite Analysis - composite scores



Confirmatory Composite Analysis - score correlations



Confirmatory Composite Analysis verified results

