

Fornell–Larcker Criterion

Test: Fornell–Larcker Criterion

Design: Square roots of construct AVE compared with the absolute latent correlation.

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

Null hypothesis: At least one construct's square-root AVE does not exceed its interconstruct correlation.

Formula: Discriminant validity requires $\sqrt{\text{AVE}_j} > |\phi_{jk}|$ for every k not equal to j .

Source rows: 649

Calculated metrics:

`sqrt_ave_academic`: 0.934069706344357

`sqrt_ave_social`: 0.517784326476187

`factor_correlation`: -0.144694034519499

`minimum_margin`: 0.373090291956688

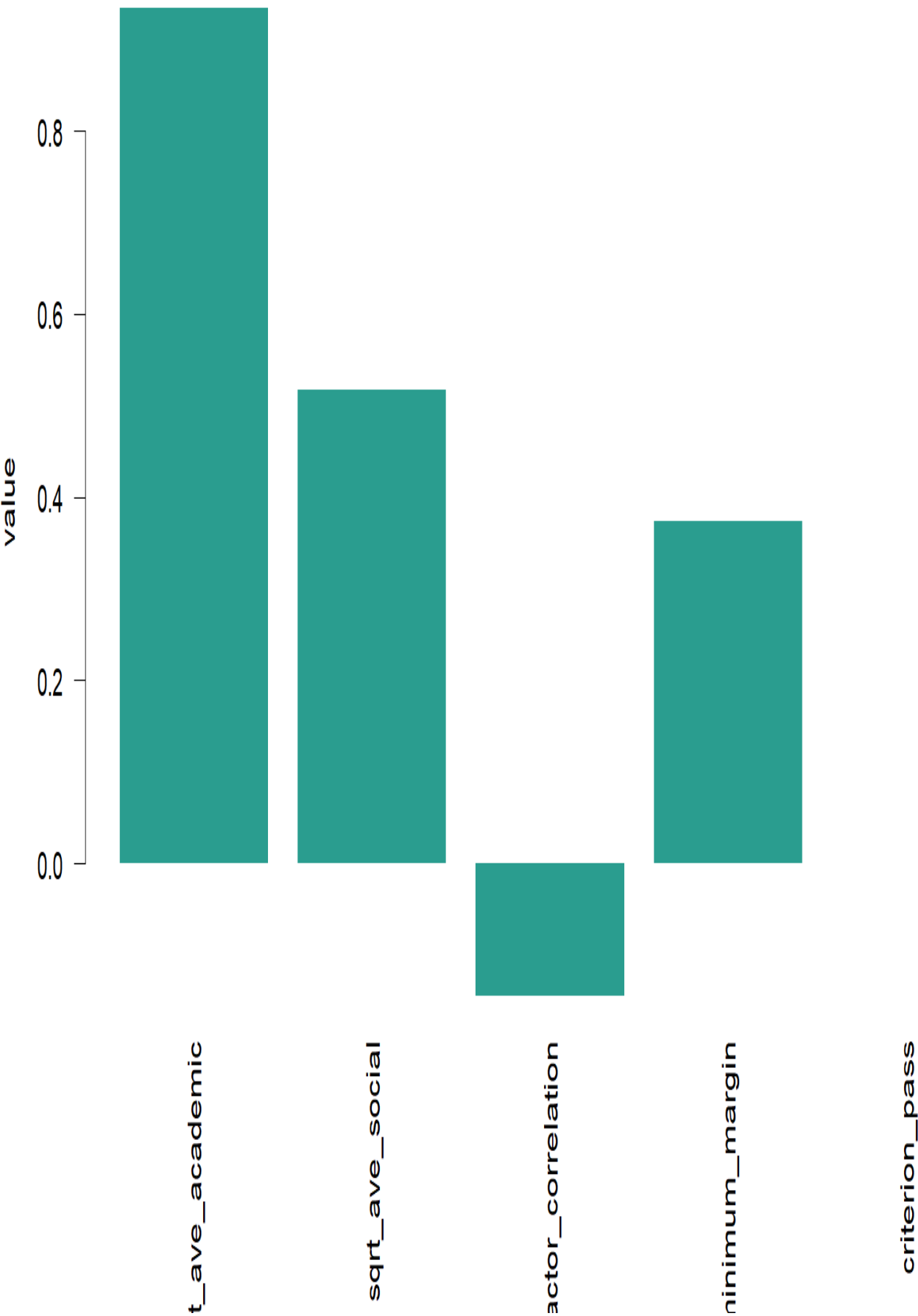
`criterion_pass`: TRUE

Interpretation:

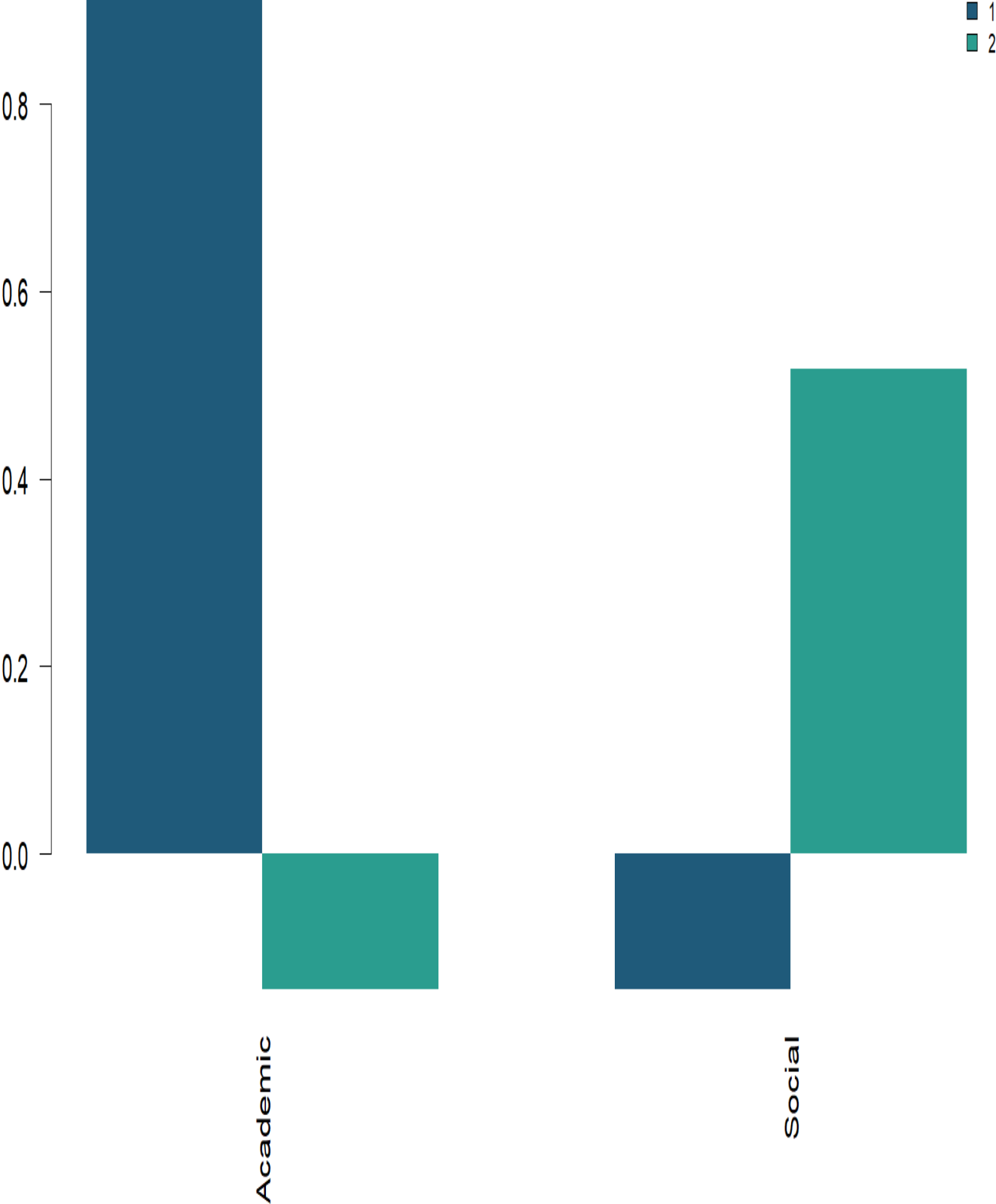
Square roots of AVE are compared with latent correlation.

Minimum margin 0.373090291956688

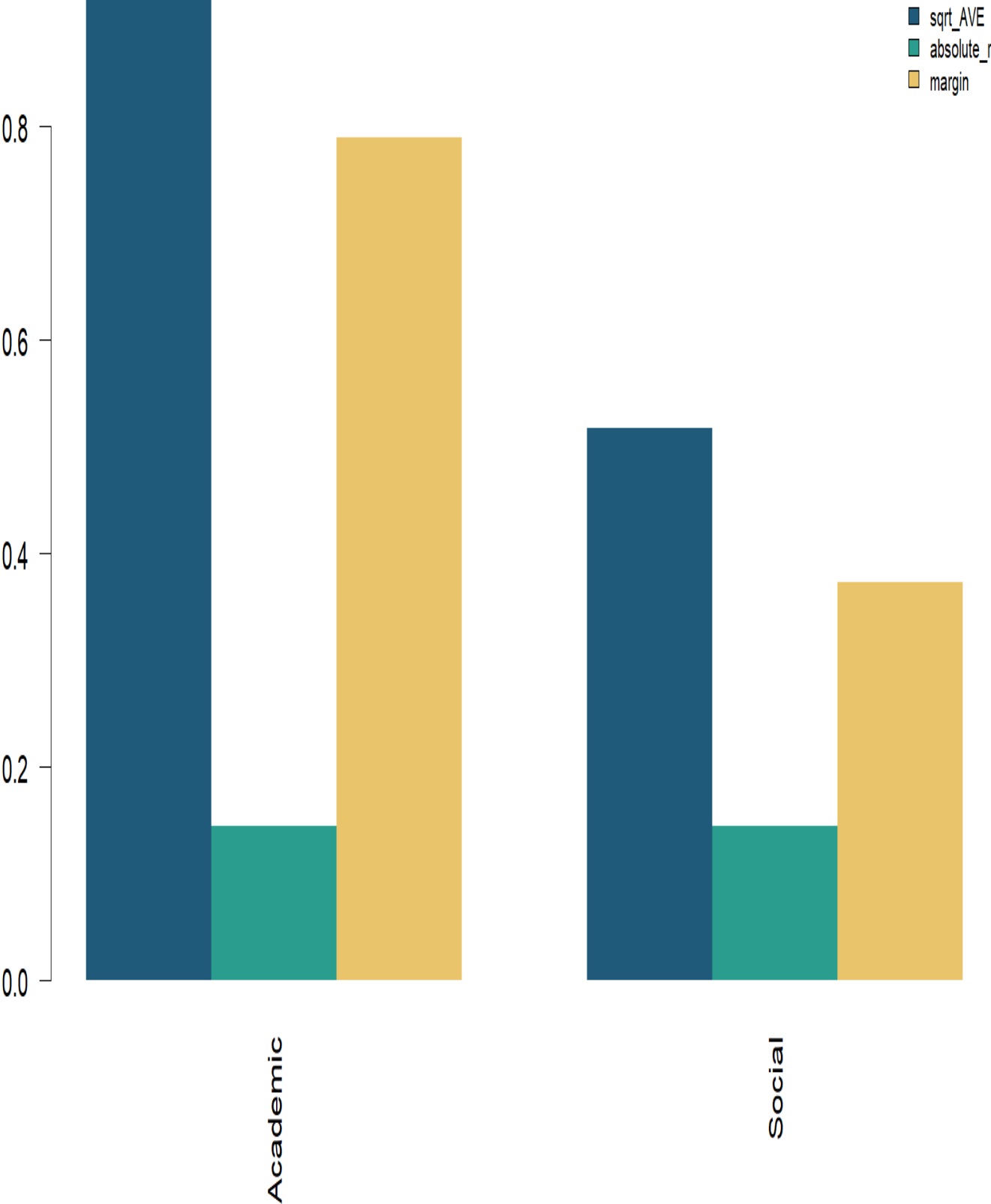
Fornell-Larcker Criterion - primary metrics



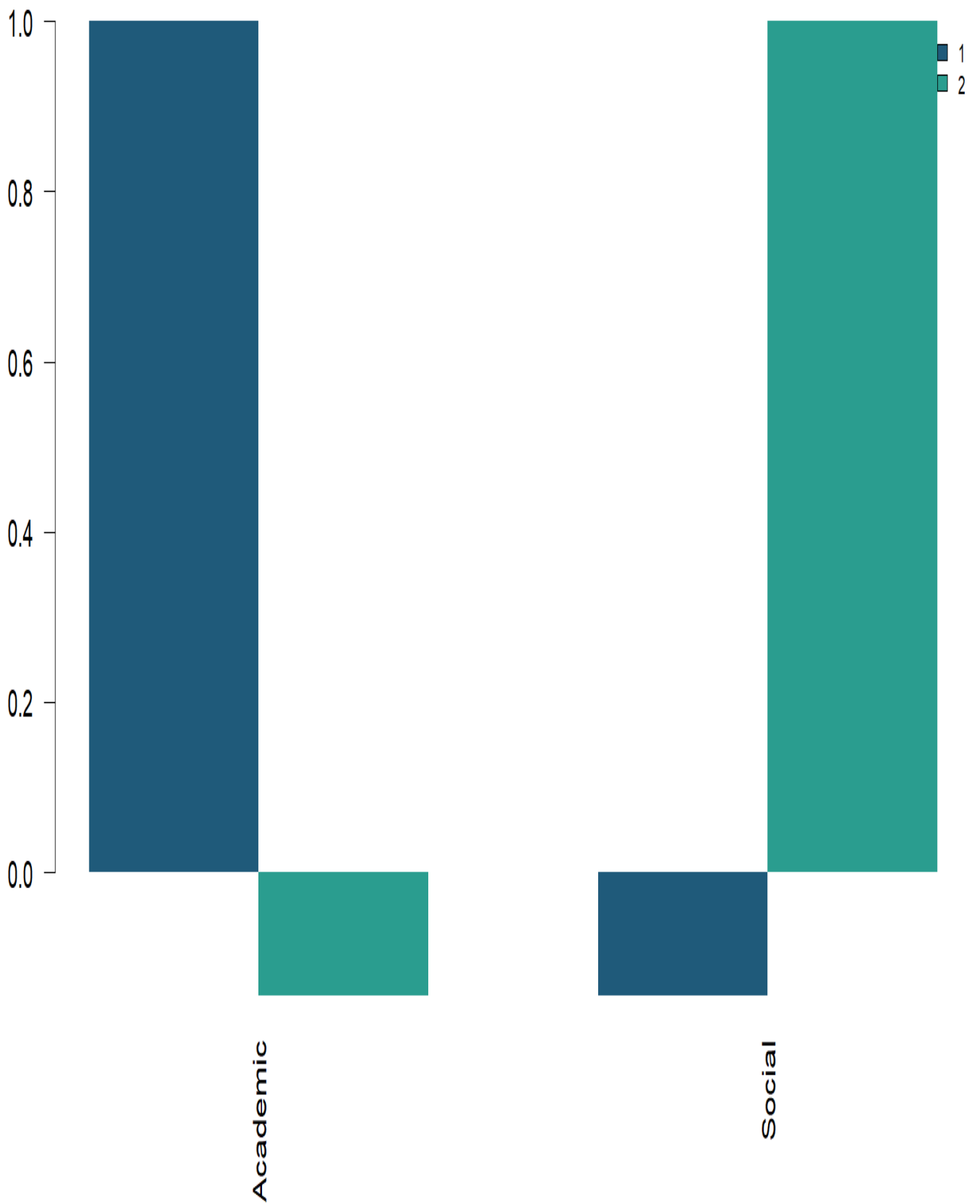
Fornell-Larcker Criterion - fornell larcker matrix



Fornell-Larcker Criterion - construct margins



Fornell-Larcker Criterion - latent correlation matrix



Fornell-Larcker Criterion verified results

