

Direct Oblimin Rotation

Test: Direct Oblimin Rotation

Design: Oblique rotation of principal-axis loadings with gamma zero and correlated factors.

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

Null hypothesis: Oblique rotation does not yield a simpler interpretable factor pattern.

Formula: Minimize oblimin criterion $\Phi(L)$ with $\gamma=0$ and unrestricted factor correlation.

Source rows: 649

Calculated metrics:

factor_correlation: 0.1668271024804

maximum_pattern_loading: 0.984992208004437

cross_loading_items: 0

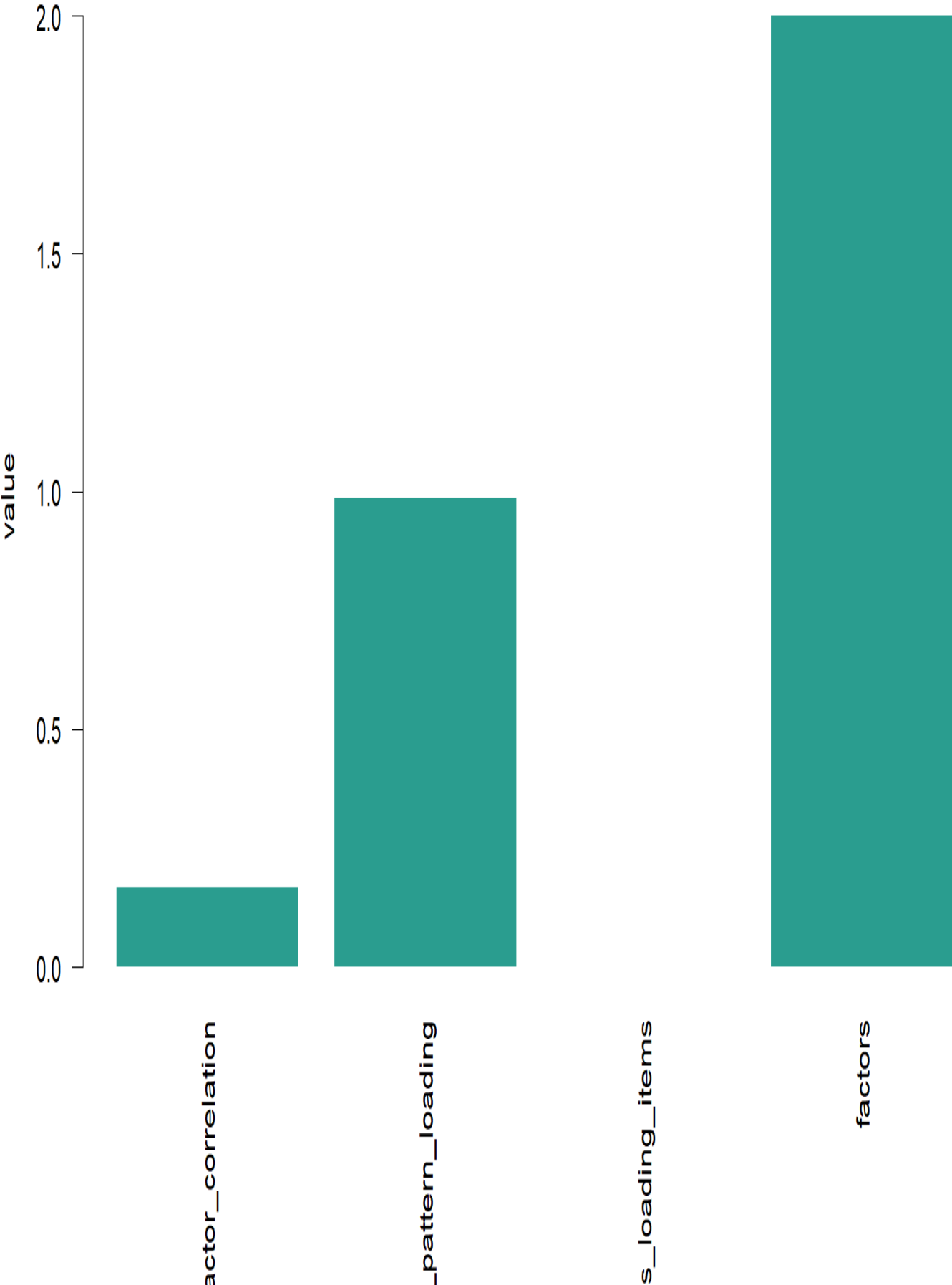
factors: 2

Interpretation:

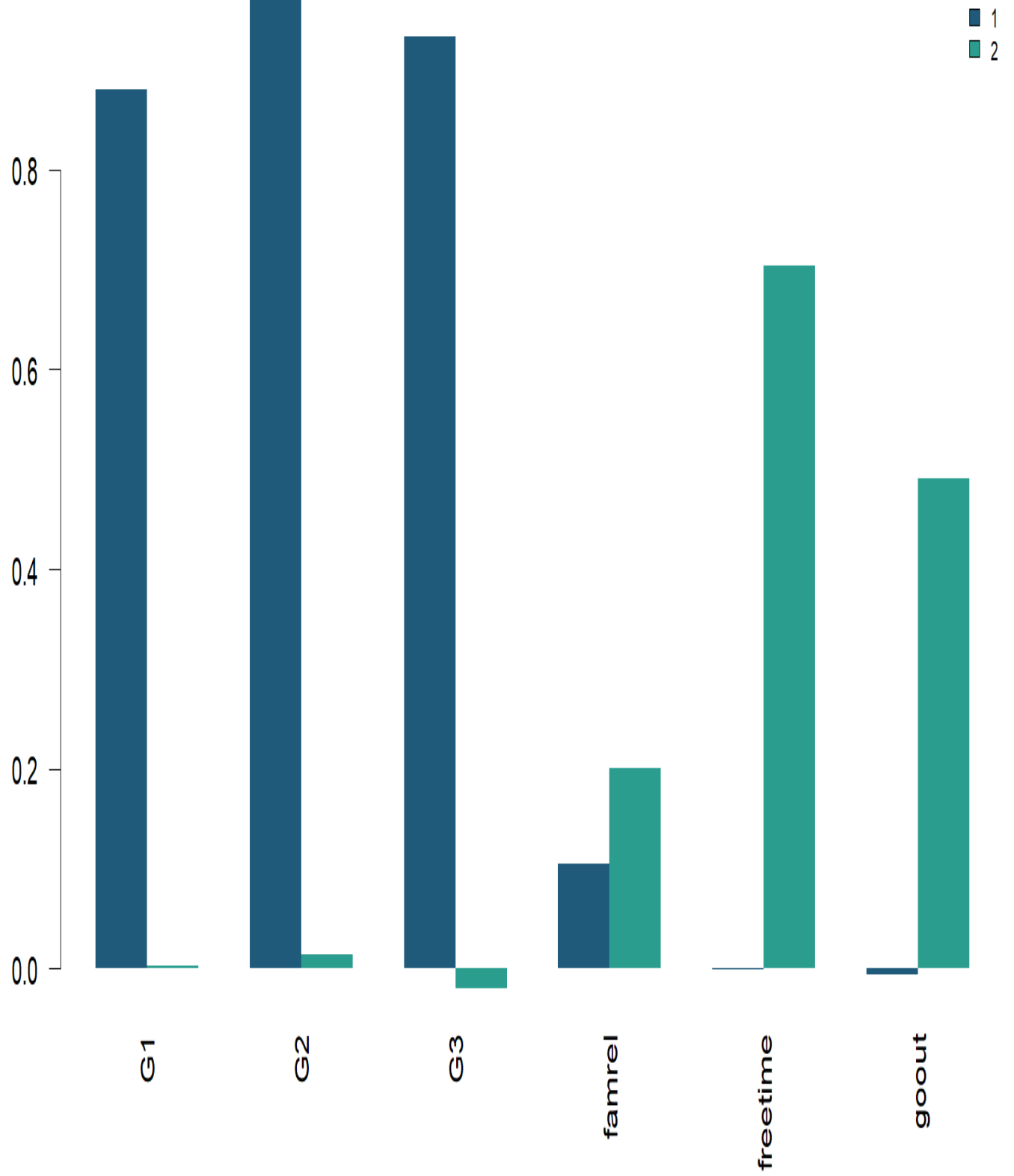
Direct oblimin permits correlated factors.

Factor correlation 0.1668271024804

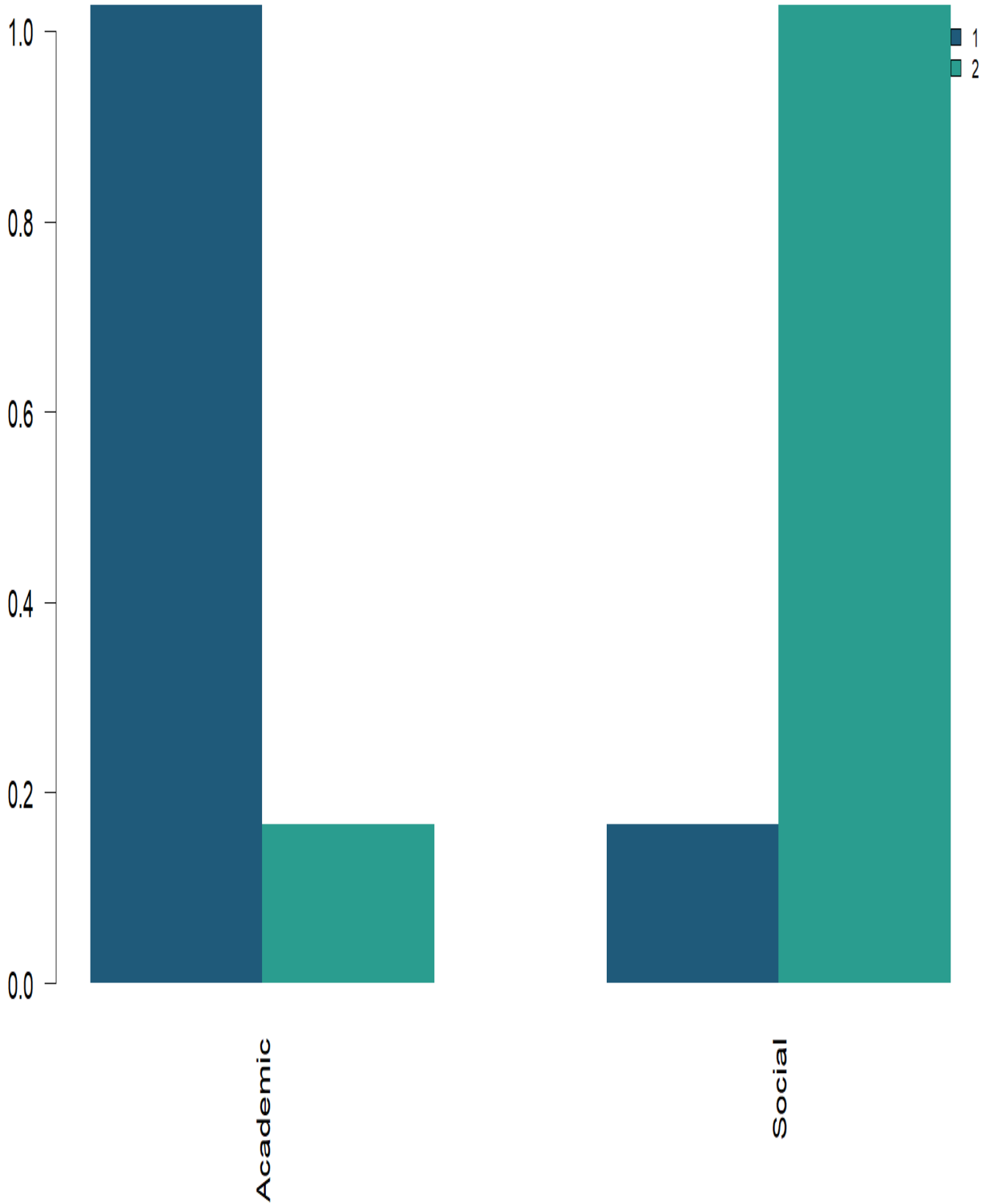
Direct Oblimin Rotation - primary metrics



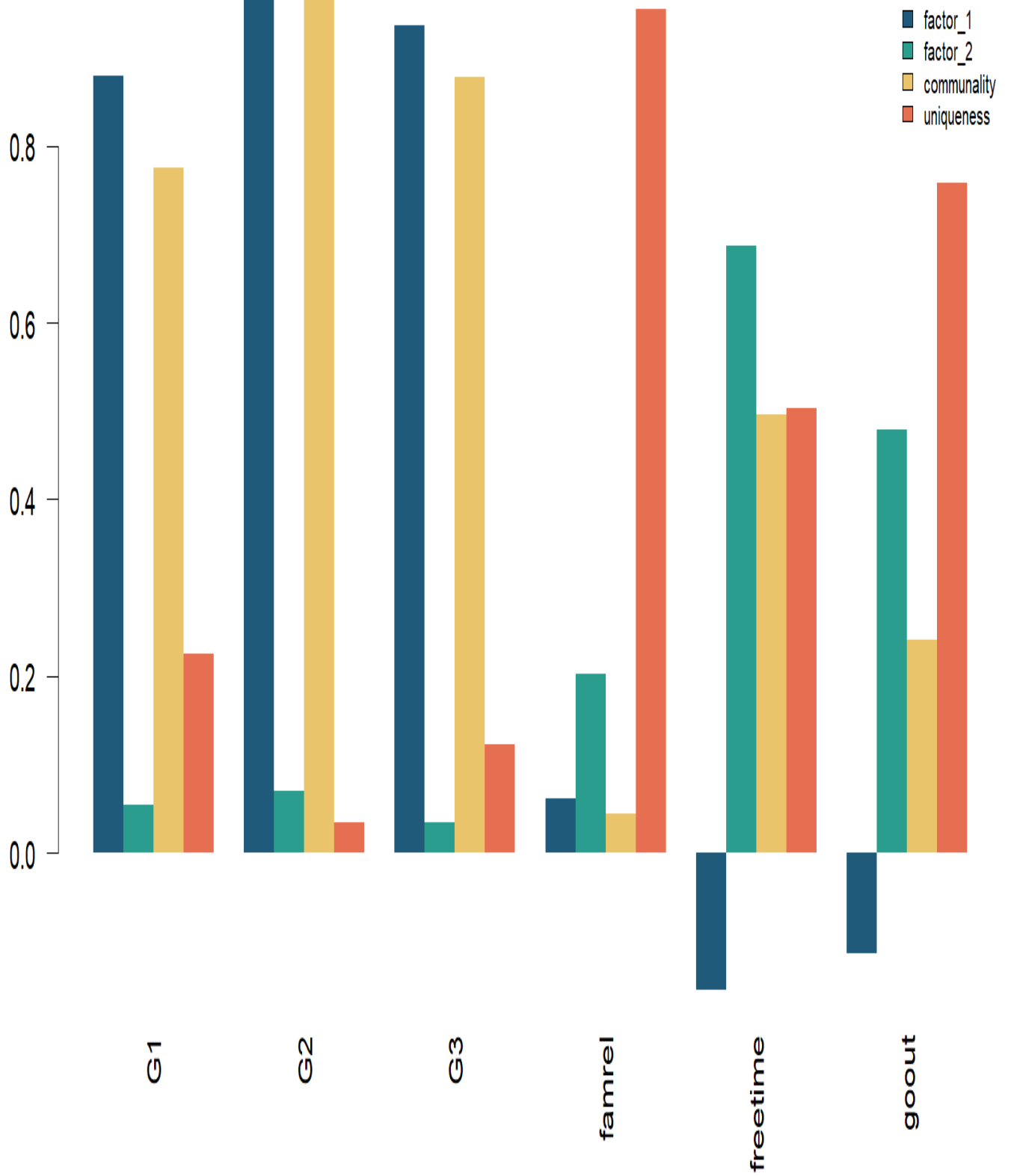
Direct Oblimin Rotation - direct oblimin pattern



Direct Oblimin Rotation - oblimin factor correlation



Direct Oblimin Rotation - unrotated principal axis loadings



Direct Oblimin Rotation verified results

