

Construct Validity Evidence

Test: Construct Validity Evidence

Design: Integrated CFA evidence from convergence, discrimination, and criterion association.

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

Null hypothesis: The construct scores show no convergent, discriminant, or criterion-related evidence.

Formula: Evidence combines AVE, CR, HTMT, factor correlation, and external criterion r.

Source rows: 649

Calculated metrics:

minimum_ave: 0.268100608744398

minimum_cr: 0.4647308232606

htmt: 0.21043104090296

factor_correlation: -0.144694034519499

criterion_r: 0.903497611355918

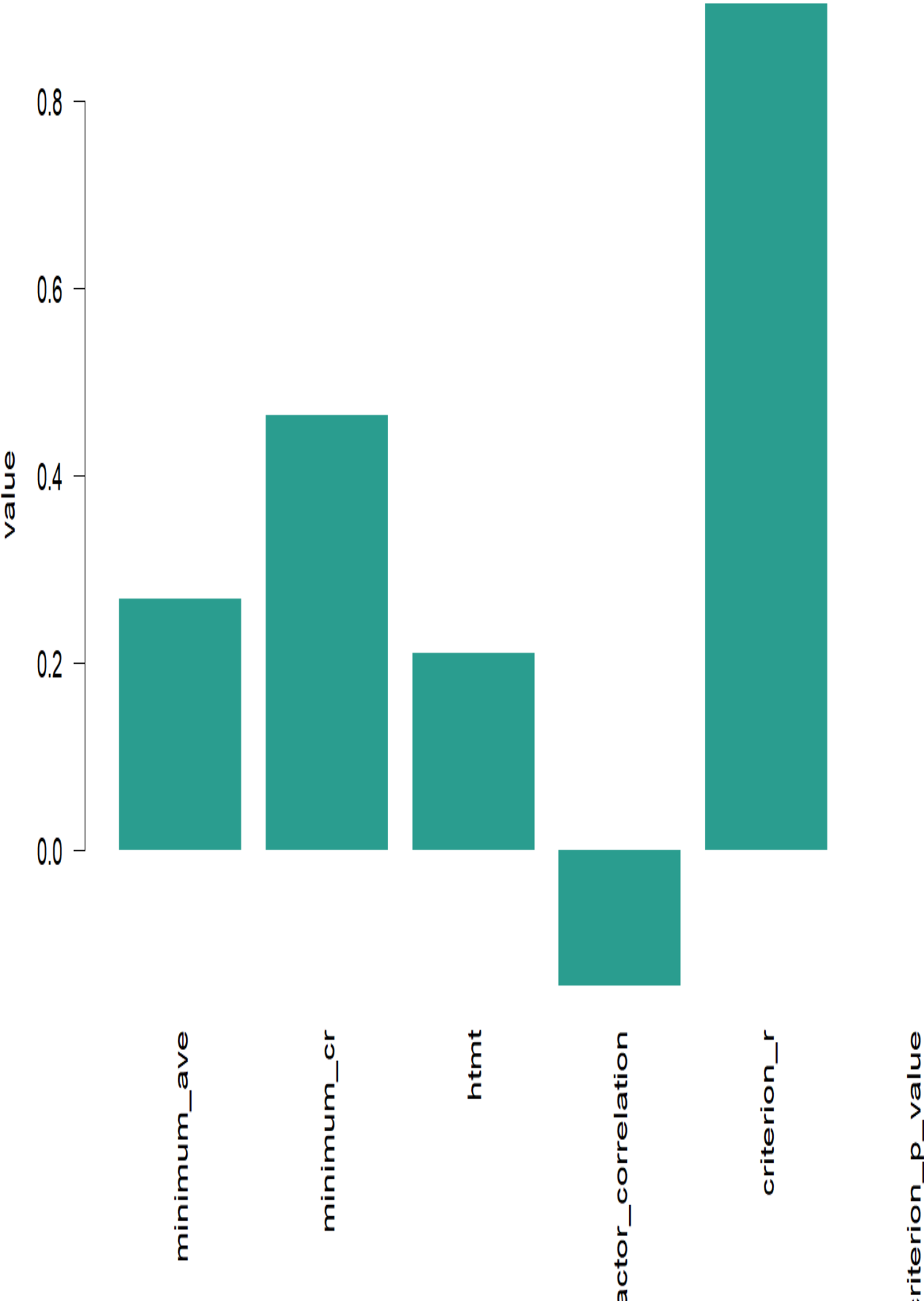
criterion_p_value: 2.97499915709543e-240

Interpretation:

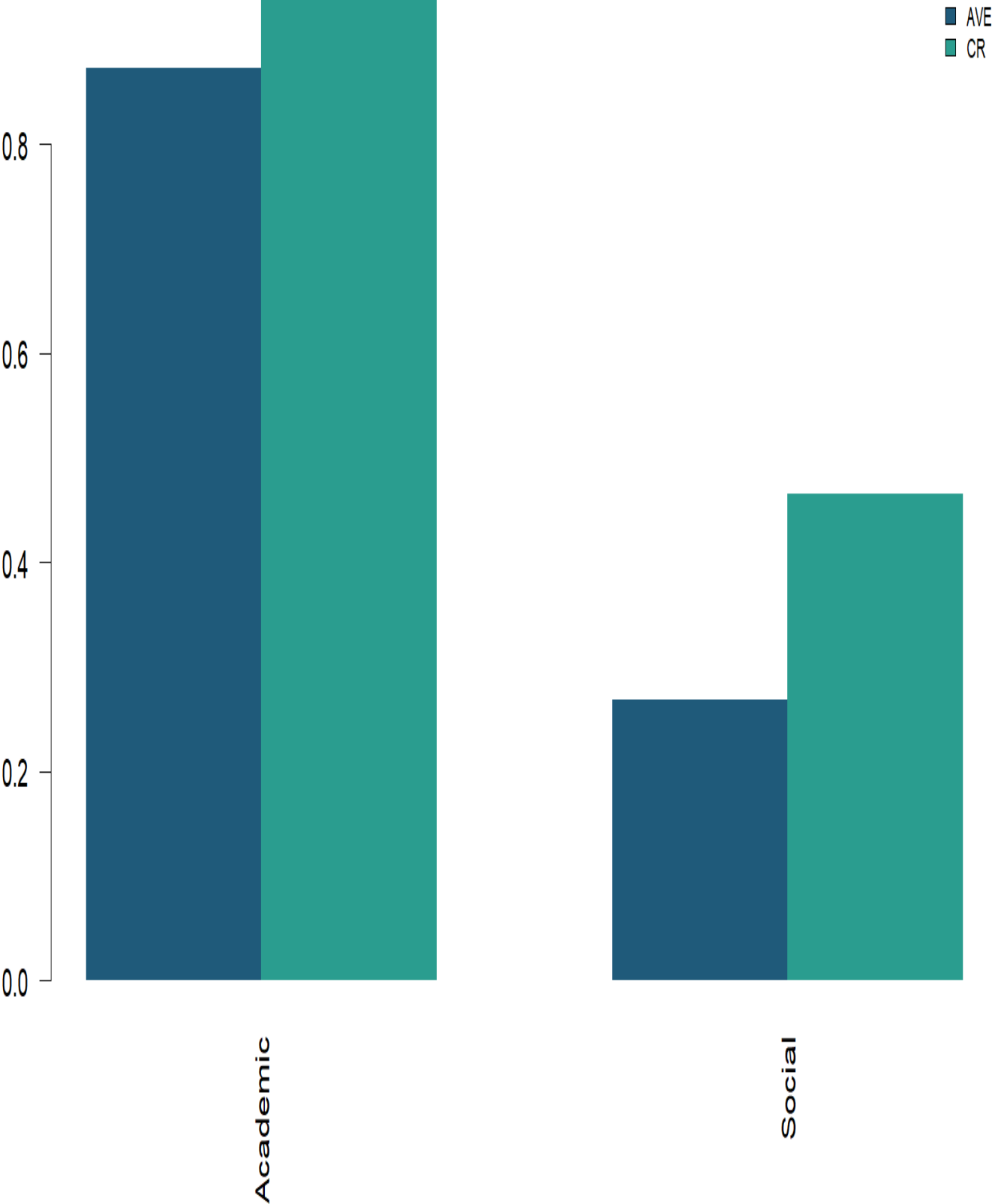
Construct validity integrates three evidence families.

Criterion r 0.903497611355918

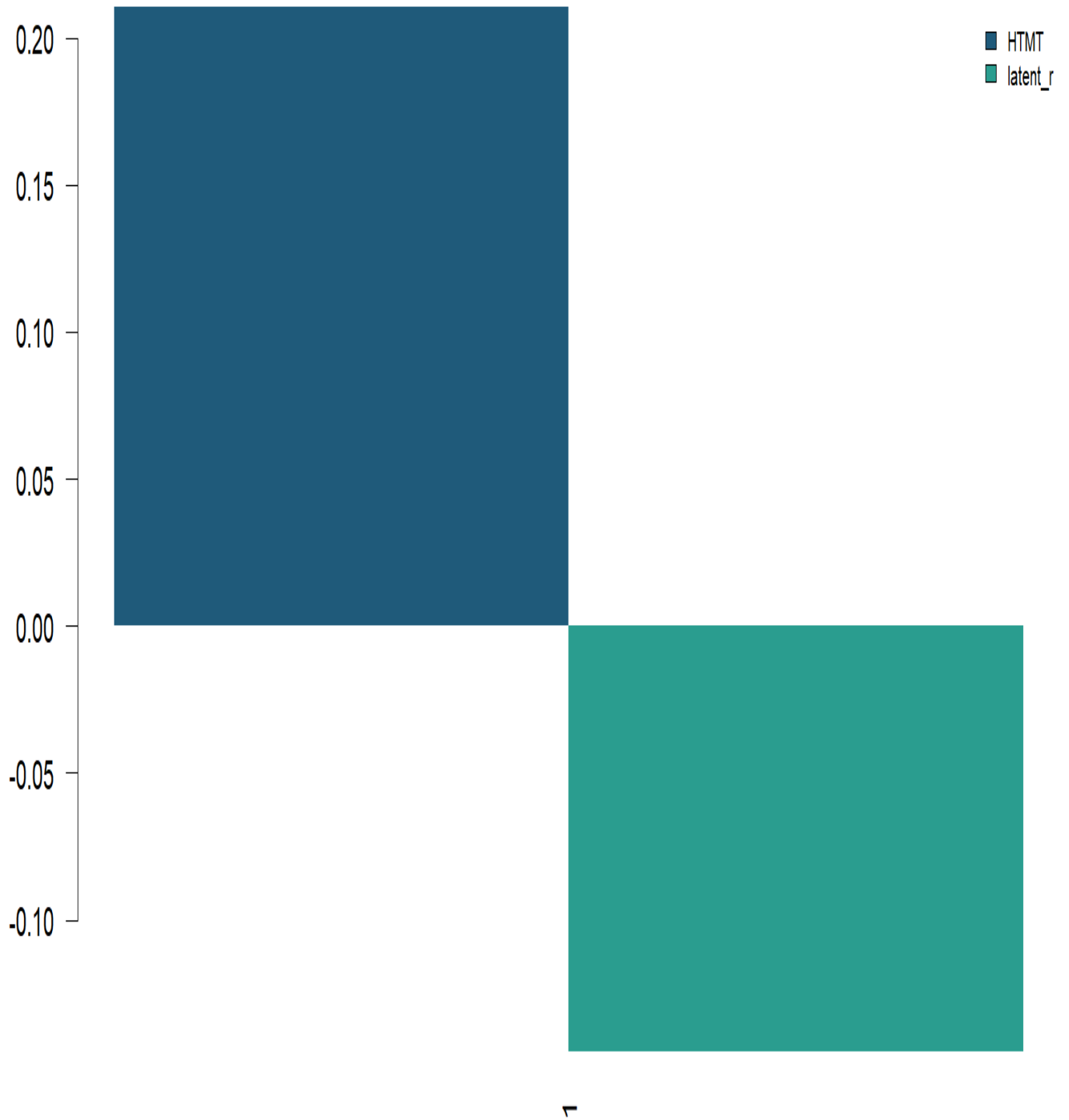
Construct Validity Evidence - primary metrics



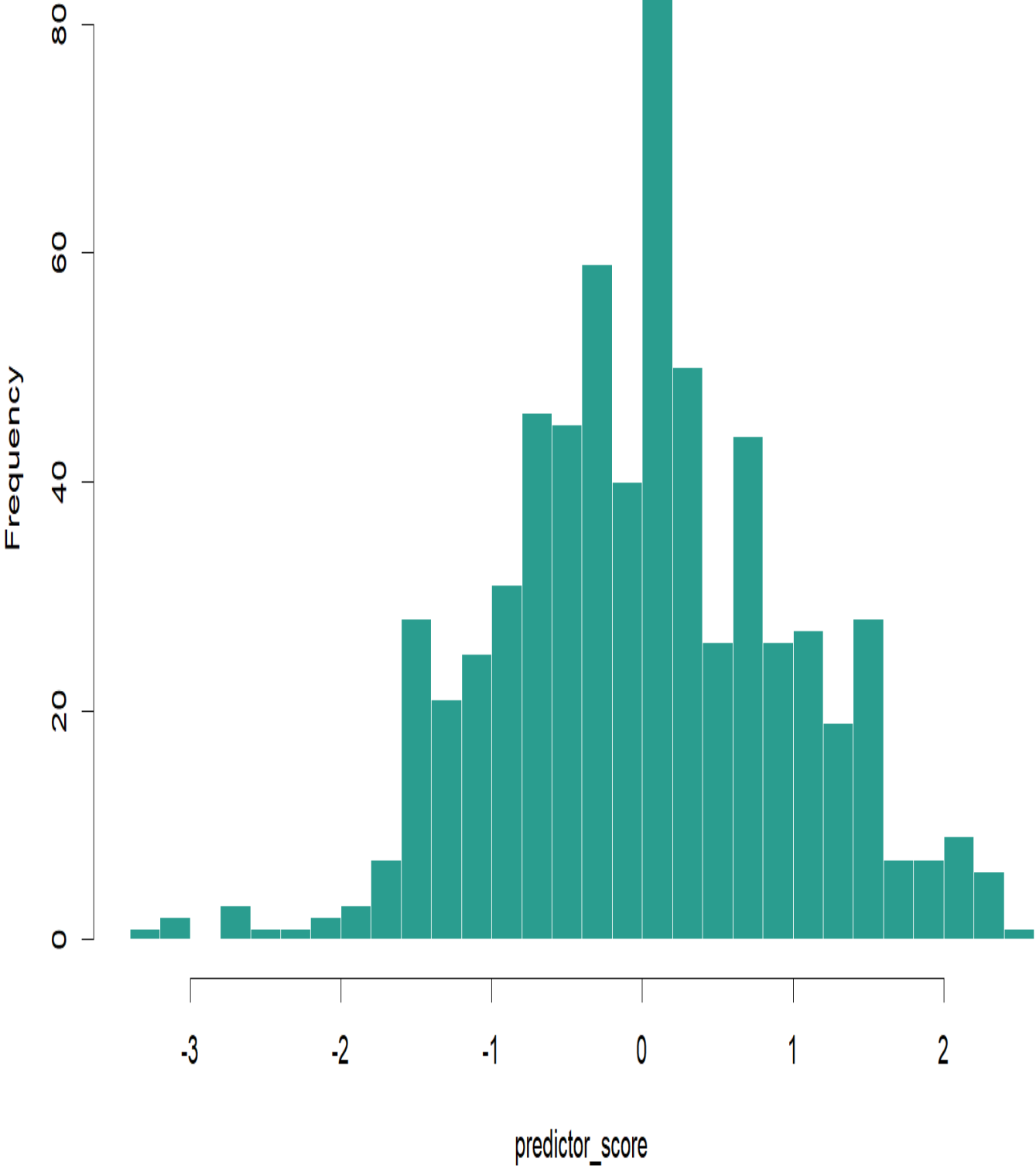
Construct Validity Evidence - convergent evidence



Construct Validity Evidence - discriminant evidence



Construct Validity Evidence - criterion evidence



Construct Validity Evidence verified results

criterion_p_value

criterion_r

factor_correlation

htmt

minimum_cr

minimum_ave

0.0

0.2

0.4

0.6

0.8

